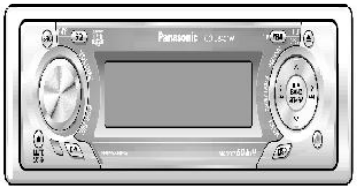
ORDER NO. ACED060609C3

# Service Manual

AUTOMOTIVE AFTERMARKET

# CQ-C7402W

## WMA MP3 CD Player/Receiver with Full Dot Matrix Display



## SPECIFICATIONS

**Specifications***

| General | |
|---|---|
| Power Supply | DC 12V (11V - 16V),<br>Test Voltage 14.4V<br>Negative Ground |
| Tone Controls (Bass/ Treble) | Bass: ±12dB at 60Hz / Treble: ± 12dB at 16kHz |
| Equalizer Center Frequency | 60, 160, 400, 1k, 3k, 6k, 16k (Hz) |
| Variable Range of Equalizer | -12dB to 12dB (2dB step) |
| Current Consumption | Less than 2.2A / (CD mode; 0.5W × 4 -speaker) |
| Maximum Power Output | 50W × 4(at 4 ) |
| Speaker Impedance | 4 - 8 |
| Pre-amp Output Voltage | 5V |
| Subwoofer Output Voltage | 5V |
| Pre-amp Output Impedance | 60 |
| Subwoofer Output Impedance | 60 |
| | |
| CD Player | |
| Sampling Frequency | 8 Times Oversampling |
| Pick-up Type | Astigma 3-Beam |
| Light Source | Semiconductor Laser |
| Wave Length | 790 nm |
| Frequency Response | 20Hz-20kHz (±1dB) |
| Signal to Noise Ratio | 96dB |

| | |
|---|---|
| Total Harmonic Distortion | 0.01% (1kHz) |
| Wow and Flutter | Below Measurable Limits |
| Channel Separation | 75dB |
| | |
| FM Stereo Radio | |
| Frequency Range | 87.5MHz - 108MHz |
| Usable Sensitivity | 6dB/ μ V (S/N 30dB) |
| Stereo Separation | 35dB (at 1kHz) |
| | |
| AM Radio | |
| Frequency Range | 531kHz - 1,602kHz |
| Usable Sensitivity | 28dB/ μ V (S/N 20dB) |
| | |
| | |
| Dimensions (W×H×D)** | 178×50×155mm |
| Weight** | 1.6Kg |
| | |
| * Specifications and the design are subject to possible modification without notice due to improvements.<br>** Dimensions and Weight shown are approximate.<br>** Above specifications comply with EIA standards. | |

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# 1. ABOUT LEAD FREE SOLDER (PbF)

**Distinction of PbF PCB:**

**PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.**

**Caution :**

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.**
- **Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C)**
- **This lead free solder will be used for the products after serial No. 1,000,001.**

# 2. FEATURES

- **MP3/WMA Playback from CD-R/RW**
- **Fully Motorized Front Panel**
- **Six Preset Modes (FLAT, ROCK, POP, VOCAL, JAZZ, CLUB)**
- **SQ7 (7 Bands Sound Quality)**
- **DVD Changer Control**
- **Delightful sound space thanks to system buildup**
- **Maximum Power Output 50W**
- **Pre Out Fix Tipe (Silver)**

# 3. REPLACEING THE FUSE

**Use fuses of the same specified rating 15 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.**

# 4. MAINTENANCE

**Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.**

# 5. NOTES

**[RADIO BLOCK]**

**Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.**

**[CD DECK BLOCK]**

**This model has no servo alignment points because microcomputer controls the servo circuit**

# 6. DIMENSIONS

# 7. LASER PRODUCTS

**CAUTION:**

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

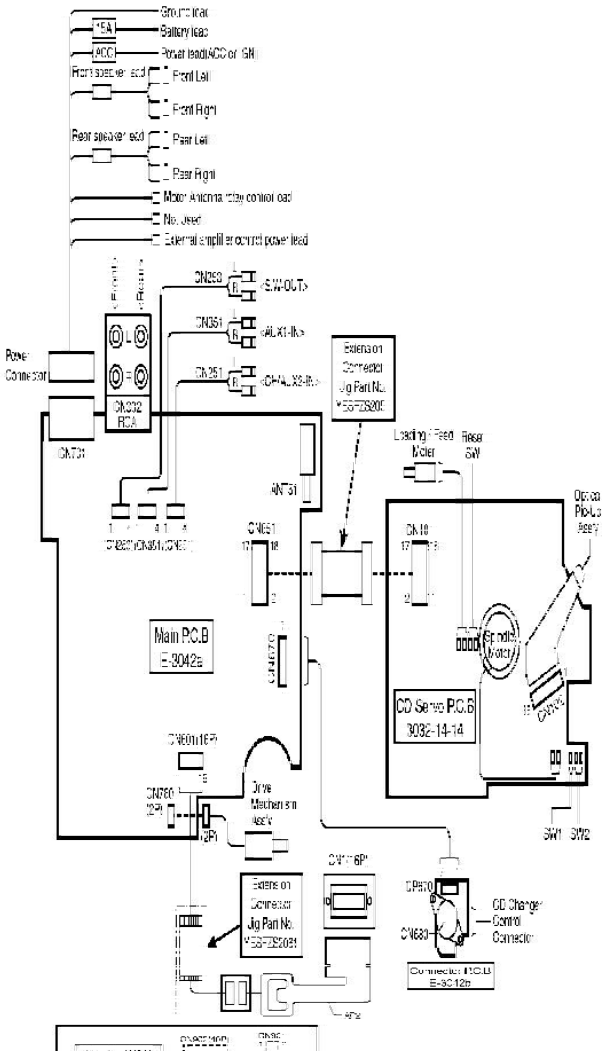
1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

**Caution**

This Product utilizes a laser.

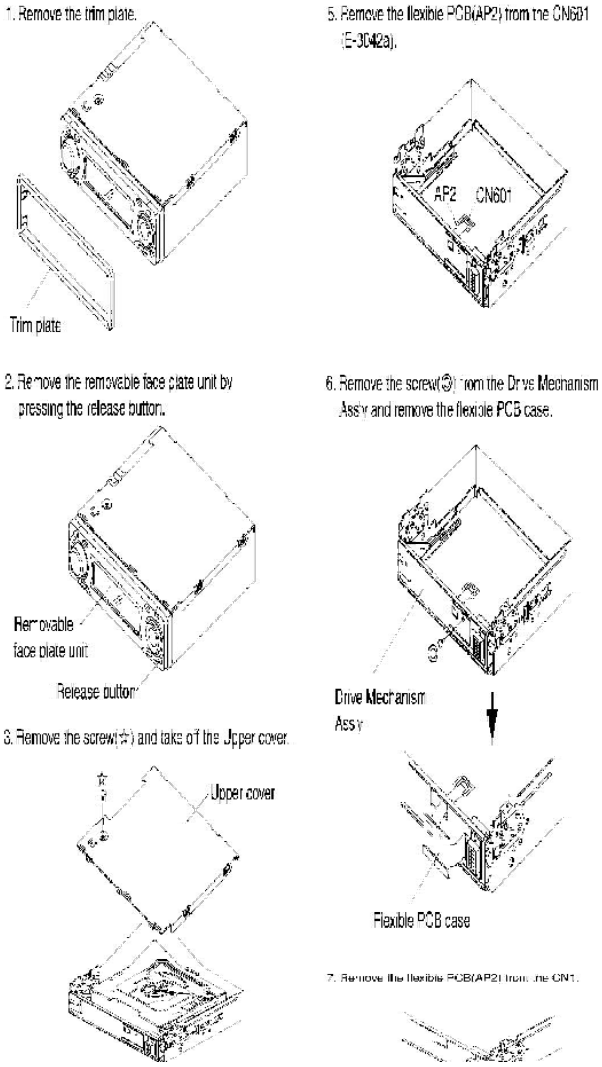
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

# 8. WIRING CONNECTION




# 9. DISASSEMBLY INSTRUCTIONS

## 9.1. How to Remove the Flexible PCB(AP2)


1. Remove the trim plate.
Trim plate
5. Remove the flexible PCB(AP2) from the CN601 (E-3042a).
AP2
CN601
2. Remove the removable face plate unit by pressing the release button.
Removable face plate unit
Release button
6. Remove the screw(③) from the Drive Mechanism Assy and remove the flexible PCB case.
Drive Mechanism Assy
Flexible PCB case
3. Remove the screw(☆) and take off the Upper cover.
Upper cover

## 9.2. How to Install the Main P.C.B. of the Electric Display

# 10. TERMINALS DESCRIPTION

## 10.1. Main Block

**IC601 : C2CBJG000589**

| Pin No. | Port | Description | (I/O) | (V) | | |
|---|---|---|---|---|---|---|
| | | | | FM | AM | CD |
| 1 | PANEL OPEN | PANEL OPEN detection | I | 0 | 5.2 | 5.2 |
| 2 | PANEL CLOSE | PANEL CLOSE detection | I | 0 | 0 | 5.2 |
| 3 | NC | No Connection | - | - | - | - |
| 4 | BATT | BATT detection | I | 4.8 | 5 | 5 |
| 5 | ACC | ACC detection | I | 4.8 | 5 | 5 |
| 6 | SDA | Electronic VOL data | I/O | 4.9 | 4.9 | 4.9 |
| 7 | SCLK | Electronic VOL clock | O | 4.9 | 4.9 | 4.9 |
| 8 | NC | No Connection | - | - | - | - |
| 9 | Vss | Power supply GND | I | 0 | 0 | 0 |
| 10 | ST | FM ST detection | I | 5.1 | 5.2 | 5.2 |
| 11 | PLL DI(MO) | PLL data output | O | 0.6 | 0 | 0 |
| 12 | PLL DO(MI) | PLL data input | I | 5.2 | 5.2 | 5.2 |
| 13 | PLL CLK | PLL clock output | O | 4.9 | 4.9 | 4.9 |
| 14 | PLL CE | PLL chip enable output | O | 0 | 0 | 0 |
| 15 | CD RST | CD deck reset output | O | 4.9 | 4.9 | 4.9 |
| 16 | SUB SI | SUB u-com Data trans | SO | 0.6 | 0.6 | 0.8 |
| 17 | NC | No Connection | - | - | - | - |
| 18 | SUB SO | SUB u-com data recept | SI | 4.4 | 4.4 | 4.4 |
| 19 | CH DATA | Changer; data transmission from XM; FLASH W SO | SI | 1.6 | 1.6 | 1.6 |
| 20 | CH CLK | Clock transmission from the changer; FLASH W CLK | SCK | 4.9 | 4.9 | 4.9 |
| 21 | Vdd | Power supply | I | 4.9 | 4.9 | 4.9 |
| 22 | XM SI | DATA transmission to XM ; FLASH W SI | S0 | 0 | 0 | 0 |
| 23 | CD SI | CD DATA transmission | S0 | | | |
| 24 | CD SCK | CD Clock transmission | SCK | 0 | 0.4 | 0 |
| 25 | CONDENSOR | Capacitor for power supply | - | 3.3 | 3.3 | 3.3 |
| 26 | CDC SO | CD DATA transmission | SI | 0 | 0 | 0 |
| 27 | CDC STB | Changer stororb signal input | INT | 0 | 0 | 0 |
| 28 | CD IN | DISC in detect | I | 4.9 | 4.9 | 0.4 |

| Pin No. | Port | Description | (I/O) | (V) | | |
|---|---|---|---|---|---|---|
| | | | | FM | AM | CD |
| 29 | DECK V CONT | DECK power supply control output | O | 4.9 | 4.9 | 4.9 |
| 30 | CD STB | CD frame sink | O | 3.7 | 3.7 | 3.7 |
| 31 | NC | No Connection | - | - | - | - |
| 32 | Avdd | Power supply of D/A converter | I | 5.1 | 5.1 | 5.1 |
| 33 | AVREF | Reference voltage for D/A converter | I | 5.1 | 5.1 | 5.1 |
| 34 | AVGND | Reference GND for D/A converter | I | 0 | 0 | 0 |
| 35 | AVSS | Grand for A/D and D/A converter | I | 0 | 0 | 0 |
| 36 | SD | FM/AM signal meter signal input | A/D | 0.2 | 0 | 0.3 |
| 37 | INIT A | Initializ A | A/D | 0 | 0 | 0 |
| 38 | INIT B | Initializ B | A/D | 0 | 0 | 0 |
| 39 | A IN | SPE.ANA A.IN | A/D | 0 | 0 | 0 |
| 40 | Vss | GND | I | 0 | 0 | 0 |
| 41 | CD MUTE | CD deck mute detection | I | 0 | 0 | 5.1 |
| 42 | NC | No Connection | - | - | - | - |
| 43 | NC | No Connection | - | - | - | - |
| 44 | NC | No Connection | - | - | - | - |
| 45 | CD SW1 | CD disc in detection | I | - | - | - |
| 46 | CD SW2 | CD disc in detection | I | - | - | - |
| 47 | MOD0 | Operating mode input 0 | I | 5.1 | 5.1 | 5.1 |
| 48 | MOD1 | Operating mode input 1 | I | 5.1 | 5.1 | 5.1 |
| 49 | MOD2 | Operating mode input 2 | I | 0 | 0 | 0 |
| 50 | H STANDBY | External standby input | I | 5 | 5 | 5 |
| 51 | DC DC CNT | DC/DC control for 60W (CQ-C8401W) | O | 0 | 0 | 0 |
| | NC | No Connection (CQ-C7401W) | - | - | - | - |
| 52 | FP MOTOR1 | Front open/close control 1 | O | 4.9 | 5 | 4.9 |
| 53 | FP MOTOR2 | Front open/close control 2 | O | 4.9 | 5 | 4.9 |

| Pin No. | Port | Description | (I/O) | (V) | | |
|---|---|---|---|---|---|---|
| | | | | FM | AM | CD |
| 54 | V CNT1 | Panel driving voltage control 1 | O | 0 | 0 | 5 |
| 55 | V CNT2(NC) | No Connection | - | - | - | - |
| 56 | SA CLK | Control for Speana acquisition | O | 5 | 5 | 4.9 |
| 57 | EXT MUTE | TEL/NAVI MUTE input | I | 5.3 | 5.2 | 5.2 |
| 58 | AMP CONT | External AMP control | O | 4.9 | 5 | 4.9 |
| 59 | BZ-OUT | Buzzer output | PPG | 0 | 0 | 0 |
| 60 | ANT CONT | Motor antenna control | O | 4.9 | 5 | 0 |
| 61 | DIM1 | Dimmer control output 1 | O | 0 | 0 | 0 |
| 62 | DIM2 | Dimmer control output 2 | O | 0 | 0 | 0 |
| 63 | CDC REM OUT | Remote control code output to Changer | O | 5 | 5 | 5 |
| 64 | CDC SENS | CDC 1/2 detection | I | 5.1 | 5.1 | 5.1 |
| 65 | CDC 1/2 | CDC 1/2 change output | O | 0 | 0 | 0 |
| 66 | NC | No Connection | - | - | - | - |
| 67 | M W UP | MAIN.WAKE.UP.REQ input | I | 5 | 4.9 | 5 |
| 68 | NC | No Connection | - | - | - | - |
| 69 | NC | No Connection | - | - | - | - |
| 70 | NC | No Connection | - | - | - | - |
| 71 | NC | No Connection | - | - | - | - |
| 72 | MAIN CONT | MAIN power supply control output | O | 4.9 | 4.9 | 4.9 |
| 73 | INV CONT | INV power supply control output | O | 5 | 5 | 5 |
| 74 | AF MUTE | Tr-MUTE control | O/I | 5 | 5 | 5 |
| 75 | RESET | Reset input | I | 5 | 5 | 5 |
| 76 | NC | No Connection | - | - | - | - |
| 77 | NC | No Connection | - | - | - | - |
| 78 | NC | GND | I | 0 | 0 | 0 |
| 79 | Vss | GND | I | 0 | 0 | 0 |
| 80 | X1 | Crystal oscillator input | I | 2 | 2 | 2 |
| 81 | X2 | Crystal oscillator output | O | 2.5 | 2.5 | 2.5 |
| 82 | Vdd | Power supply | I | 5 | 5 | 5 |
| 83 | P00 | Pldaun port for writing | I | 0 | 0 | 0 |

| Pin No. | Port | Description | (I/O) | (V) | | |
|---|---|---|---|---|---|---|
| | | | | FM | AM | CD |
| 84 | P01 | Pull-up port for writing | I | 5.1 | 5 | 5.1 |
| 85 | OFFSET DET | PWR-IC OFFSET detection | I | 0 | 0 | 0 |
| 86 | STBY | PWR-IC STBY control output | O | 5 | 5 | 5 |
| 87 | AMP MUTE | PWR-IC MUTE control output | O | 0 | 0 | 0 |
| 88 | ILL SENS | External dimmer control input | I | 5 | 5 | 5 |
| 89 | SUBM CNT | 3.3V control for SUB microcomputer | O | 5 | 5 | 5 |
| 90 | NC | No Connection | - | - | - | - |
| 91 | NC | No Connection | - | - | - | - |
| 92 | NC | No Connection | - | - | - | - |
| 93 | SUB W U REQ | SUB.WAKE.UP.REQ | O | 4.9 | 5 | 4.9 |
| 94 | DISPM CNT | Power supply control output of display 5V | O/I | 0 | 0 | 0 |
| 95 | EJE ILL(NC) | No Connection | - | - | - | - |
| 96 | NC | No Connection | - | - | - | - |
| 97 | NC | No Connection | - | - | - | - |
| 98 | S LED | Security LED control output | O | 0 | 0 | 5 |
| 99 | PANEL IN | PANEL detect | I | 5.2 | 5.2 | 5.2 |
| 100 | EP CS(NC) | No Connection | - | - | - | - |

## 10.2. Display Block

IC900 C2CBJH000095

| Pin No. | Port | Part Name & Description | I/O | (V) |
|---|---|---|---|---|
| 1 | A18 | FLASH A17 | O | 1.5 |
| 2 | A19 | FLASH A18 | O | 1.7 |
| 3 | A20 | FLASH A19 | O | 1.3 |
| 4 | NC | No Connection | - | - |
| 5 | NC | No Connection | - | - |
| 6 | NC | No Connection | - | - |
| 7 | A0 | LCD driver data or command distinction | O | 1.3 |
| 8 | A1 | FLASH A0 | O | 0.3 |
| 9 | VSS | Ground potential | - | 0 |
| 10 | A2 | FLASH A1 | O | 0.4 |
| 11 | A3 | FLASH A2 | O | 0.4 |
| 12 | A4 | FLASH A3 | O | 0.4 |
| 13 | A5 | FLASH A4 | O | 1.3 |
| 14 | A6 | FLASH A5 | O | 0.4 |
| 15 | A7 | FLASH A6 | O | 0 |
| 16 | A8 | FLASH A7 | O | 1.3 |
| 17 | A9 | FLASH A8 | O | 0 |
| 18 | A10 | FLASH A9 | O | 0 |
| 19 | A11 | FLASH A10 | O | 1.5 |
| 20 | A12 | FLASH A11 | O | 1.7 |
| 21 | VCC | Positive power supply terminal | - | 3.5 |
| 22 | A13 | FLASH A12 | O | 1.4 |
| 23 | A14 | FLASH A13 | O | 1.6 |
| 24 | A15 | FLASH A14 | O | 1.7 |
| 25 | SUB SI UP SO | MAIN-u-com communication data input and external flash rewritting | - | 0.5 |
| 26 | SUB SO/UP SI | MAIN-u-com communication data output and external flash rewritting | O | 1.8 |
| 27 | UP CLK | External flash rewritting switch | I | 3.5 |
| 28 | NC | No Connection | - | - |
| 29 | FLASH RESET | FLASH reset control output | O | 3.5 |
| 30 | KS1 | Key scan signal 1 output | I | 0 |
| 31 | NC | No Connection | - | - |
| 32 | NC | No Connection | - | - |
| 33 | AVCC | Positive power supply for A/D converter | - | 3.5 |
| 34 | AVRH | A/D converter standard voltage input | - | 3.5 |

| Pin No. | Port | Part Name & Description | I/O | (V) |
|---|---|---|---|---|
| 35 | AVSS/AVRL | A/D converter ground potential | - | 0 |
| 36 | TH DETECT | Temperature detection input | I | 1.3 |
| 37 | KS2 | Key scan signal 2 output | I | 0 |
| 38 | KS3 | Key scan signal 3 output | I | 0 |
| 39 | NC | No Connection | - | - |
| 40 | VSS | Ground potential | - | 0 |
| 41 | KI5 | Key return signal 5 input | I | 0 |
| 42 | KI4 | Key return signal 4 input | I | 0 |
| 43 | KI3 | Key return signal 3 input | I | 0 |
| 44 | KI2 | Key return signal 2 input | I | 0 |
| 45 | NC | FLASH writing program starter | I | 0 |
| 46 | NC | FLASH writing program starter | I | 3.5 |
| 47 | MD0 | Mode setting terminal | I | 3.5 |
| 48 | MD1 | Mode setting terminal | I | 3.5 |
| 49 | MD2 | Mode setting terminal | I | 0 |
| 50 | S W U REQ | SUB-u-com wake up request | INT | 3.0 |
| 51 | ROTARY.1 | Rotary encoder signal 1(VOL UP) | I | 2.5 |
| 52 | ROTARY.2 | Rotary encoder signal 2 (VOL DOWN) | I | 2.5 |
| 53 | KI1(SOURCE) | Key return signal 1 | INT /I | 0 |
| 54 | REMO INT | Remote control signal interference | INT | 3.7 |
| 55 | NC/WP/ACC | No Connection | O | 0 |
| 56 | NC/A21 | No Connection | O | 0 |
| 57 | NC/A22 | No Connection | O | 0 |
| 58 | FLASH CE | FLASH chip enable | O | 3.4 |
| 59 | LCD CS | LCD driver chip select | O | 3.4 |
| 60 | NC | No Connection | - | - |
| 61 | NC | No Connection | - | - |
| 62 | REMO 1 | Remote control signal | I | 3.7 |
| 63 | NC | No Connection | - | - |
| 64 | VLCD CONT | VLCD 16V control | O | 3.4 |
| 65 | M W U REQ | MAIN-u-com wake up request | O | 0 |
| 66 | LED ON | P.LED control output | O | 3.4 |

| Pin No. | Port | Part Name & Description | I/O | (V) |
|---|---|---|---|---|
| 67 | NC | No Connection | - | - |
| 68 | NC | No Connection | - | - |
| 69 | FLASH OE/ LCD RD | FLASH output enable and LCD driver lead strobe | O | 3.4 |
| 70 | LCD WR | LCD driver light strobe signal | O | 3.4 |
| 71 | FLASH WE | FLASH light enable signal | O | 3.4 |
| 72 | NC | No Connection | - | - |
| 73 | LCD RESET | LCD driver reset control | O | 3.4 |
| 74 | FLASH RY/BY | FLASH ready/busy input | I | 3.4 |
| 75 | /RST | System reset signal input | I | 3.5 |
| 76 | NC | No Connection | - | - |
| 77 | X1A | No Connection | - | - |
| 78 | X0A | Not used | I | 0 |
| 79 | VSS | Ground | - | 0 |
| 80 | X0 | MAIN system clock input (12.5MHz) | I | 1.3 |
| 81 | X1 | MAIN system clock output (12.5MHz) | O | 1.5 |
| 82 | VCC | Positive power supply | - | 3.5 |
| 83 | D0 | FLASH D0/LCD D0 | I | 0.9 |
| 84 | D1 | FLASH D1/LCD D1 | I | 0.9 |
| 85 | D2 | FLASH D2/LCD D2 | I | 1.1 |
| 86 | D3 | FLASH D3/LCD D3 | I | 0.9 |
| 87 | D4 | FLASH D4/LCD D4 | I | 1.0 |
| 88 | D5 | FLASH D5/LCD D5 | I | 1.1 |
| 89 | D6 | FLASH D6/LCD D6 | I | 1.1 |
| 90 | D7 | FLASH D7/LCD D7 | I | 0.8 |
| 91 | D8 | FLASH D8 | I/O | 0.9 |
| 92 | D9 | FLASH D9 | I/O | 0.9 |
| 93 | D10 | FLASH D10 | I/O | 0.9 |
| 94 | D11 | FLASH D11 | I/O | 0.8 |
| 95 | D12 | FLASH D12 | I/O | 0.8 |
| 96 | D13 | FLASH D13 | I/O | 0.7 |
| 97 | D14 | FLASH D14 | I/O | 0.7 |
| 98 | D15 | FLASH D15 | I/O | 0.7 |
| 99 | A16 | FLASH A15 | O | 3.0 |
| 100 | A17 | FLASH A16 | O | 1.7 |

## 10.3. CD Servo Block

IC401 : YESAM275

| Pin No. | Port | Descriptions | I/O | (V) |
|---|---|---|---|---|
| 1 | CVSS1 | GND | - | 0 |
| 2 | A22 | TP407 | - | 0 |
| 3 | CVSS2 | GND | - | 0 |
| 4 | DVDD1 | I/O system (3.3V) power supply | - | 3.1 |
| 5 | A10 | Address bus of FLASH ROM | O | 3.1 |
| 6 | - | - | - | - |
| 7 | A11 | Address bus of FLASH ROM | O | 0 |
| 8 | A12 | | O | 3.1 |
| 9 | A13 | | O | 3.1 |
| 10 | A14 | | O | 3.1 |
| 11 | A15 | | O | 0 |
| 12 | / CVDD1 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 13 | - | - | - | - |
| 14 | DVSS1 | GND | - | 0 |
| 15 | CVSS3 | GND | - | 0 |
| 16 | / CVDD2 | I/O system (3.3V) power supply | - | 1.6 |
| 17 | - | - | - | - |
| 18 | - | - | - | - |
| 19 | READY | - | - | 3.1 |
| 20 | /PS | FLASH ROM selection signal | O | 3.1 |
| 21 | - | - | - | - |
| 22 | - | - | - | - |
| 23 | R/W | Lead/light signal to FLASH ROM | O | 3.1 |
| 24 | / MSTRB | Memory access signal | O | 3.1 |
| 25 | - | - | - | - |
| 26 | /MSC | - | - | 3.1 |
| 27 | MUTE | Mute signal output (H:Mute on) | O | 0 |
| 28 | - | - | - | - |
| 29 | - | - | - | - |
| 30 | /HOLD | - | - | 3.1 |
| 31 | BIO | SUBO input | I | 0 |
| 32 | MP/MC | Operation mode setting (external pull-up) | I | 3.1 |
| 33 | DVDD2 | I/O system (3.3V) power supply | - | 3.1 |
| 34 | CVSS4 | GND | - | 0 |
| 35 | BD R1 | GND | I | 0 |
| 36 | - | - | - | - |
| 37 | CVSS5 | GND | - | 0 |
| 38 | - | - | - | - |

| Pin No. | Port | Descriptions | I/O | (V) |
|---|---|---|---|---|
| 39 | - | - | - | - |
| 40 | DVSS2 | GND | - | 0 |
| 41 | CLK CM | AUDIO bit clock input | I | 1.6 |
| 42 | SCK | Clock input | I | 3.0 |
| 43 | LRCK C M | AUDIO L/R identifying signal input | I | 1.6 |
| 44 | CDFS | Serial frame sink signal input | I | 2.4 |
| 45 | DATA CM | AUDIO serial data input | I | 1.6 |
| 46 | - | - | - | - |
| 47 | SI | Serial data input | I | 0 |
| 48 | CLK M C | AUDIO bit clock output | O | 1.6 |
| 49 | SCK | Clock input | I | 3.0 |
| 50 | CVSS6 | GND | - | 0 |
| 51 | - | - | - | - |
| 52 | CVDD3 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 53 | LRCK M C | AUDIO L/R identifying signal output | O | 1.5 |
| 54 | CDFS | Serial frame sink signal input | I | 2.4 |
| 55 | - | - | - | - |
| 56 | DVDD3 | I/O system (3.3V) power supply | - | 3.1 |
| 57 | DVSS3 | GND | - | 0 |
| 58 | REST SW | Mechanics deck REST SW input | I | 3.1 |
| 59 | DATA M C | AUDIO serial data output | O | 1.6 |
| 60 | SO | Serial data output | O | 1.1 |
| 61 | - | - | - | - |
| 62 | - | - | - | - |
| 63 | /NMI | - | - | 3.1 |
| 64 | /INT0 | - | - | 3.1 |
| 65 | /INT1 | - | - | 3.1 |
| 66 | BLKCK | Subcode block clock pulse input | I | 0 |
| 67 | /INT3 | - | - | 3.1 |
| 68 | CV DD4 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 69 | SW1 | Mechanics deck SW1 input | I | 0 |
| 70 | CVSS7 | GND | - | 0 |
| 71 | MCLK | Clock output (To Servo DSP) | O | 3.1 |
| 72 | DVSS4 | GND | - | 0 |

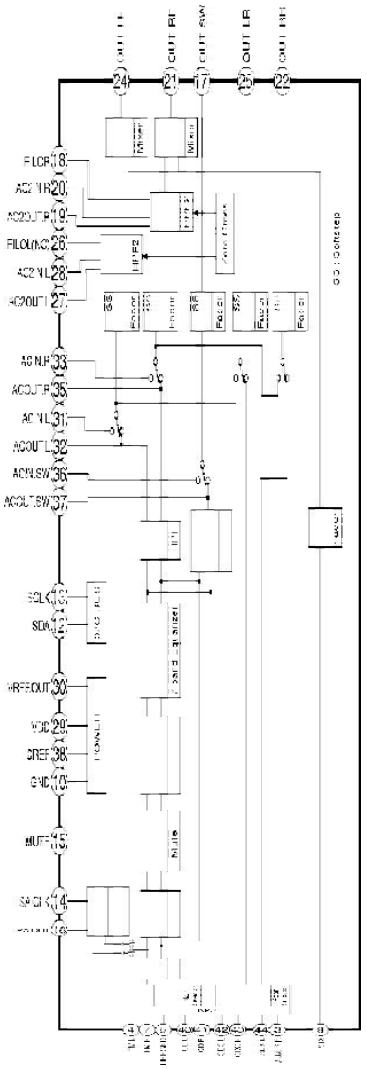
| Pin No. | Port | Descriptions | I/O | (V) |
|---|---|---|---|---|
| 73 | MLD | Command load signal output (To Servo DSP) | I | 3.1 |
| 74 | MDATA | Command data output (To Servo DSP) | O | 3.1 |
| 75 | DVDD4 | I/O system (3.3V) power supply | - | 3.1 |
| 76 | DVSS5 | GND | - | 0 |
| 77 | CLK MD1 | Clock mode setting (L fixation) | I | 0 |
| 78 | CLK MD2 | Clock mode setting (H fixation) | I | 3.1 |
| 79 | CLK MD3 | Clock mode setting (L fixation) | I | 0 |
| 80 | - | - | - | - |
| 81 | SW2 | Mechanics deck SW2 input | I | 0.2 |
| 82 | - | - | - | - |
| 83 | EMU0 | - | - | 3.1 |
| 84 | EMU/ OFF | - | - | 3.1 |
| 85 | TDO | - | - | 0 |
| 86 | TDI | - | - | 3.1 |
| 87 | /TRST | - | - | 0 |
| 88 | TCK | - | - | 3.1 |
| 89 | TMS | - | - | 3.1 |
| 90 | CVSS8 | GND | - | 0 |
| 91 | CVDD5 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 92 | HPIENA | GND | I | 0 |
| 93 | DVSS6 | GND | - | 0 |
| 94 | - | - | - | - |
| 95 | CLKENA | Oscillation output Cainabl signal | O | 0 |
| 96 | X1 | Crystal Connection | O | 0.7 |
| 97 | X2/ CLKIN | Crystal Connection | I | 1.0 |
| 98 | RS | Reset signal input | I | 3.1 |
| 99 | D0 | Data base of FLASH ROM | I/O | 0 |
| 100 | D1 | | I/O | 0 |
| 101 | D2 | | I/O | 0 |
| 102 | D3 | | I/O | 0 |
| 103 | D4 | | I/O | 0 |
| 104 | D5 | | I/O | 0 |
| 105 | A16 | Address bus of FLASH ROM | O | 3.1 |
| 106 | DVSS7 | GND | - | 0 |
| 107 | A17 | Address bus of FLASH ROM | O | 3.1 |
| 108 | A18 | Address bus of FLASH ROM | O | 0 |
| 109 | A19 | TP419 | O | 0 |

| Pin No. | Port | Descriptions | I/O | (V) |
|---|---|---|---|---|
| 110 | A20 | TP416 | O | 0 |
| 111 | CVSS9 | GND | - | 0 |
| 112 | DVDD5 | I/O system (3.3V) power supply | - | 3.1 |
| 113 | D6 | Data bus of FLASH ROM | I/O | 0 |
| 114 | D7 | | I/O | 0 |
| 115 | D8 | | I/O | 0 |
| 116 | D9 | | I/O | 0 |
| 117 | D10 | | I/O | 0 |
| 118 | D11 | Data bus of FLASH ROM | I/O | 0 |
| 119 | D12 | | I/O | 0 |
| 120 | STAT | Status signal input | I | 3.0 |
| 121 | D13 | Data path of FLASH ROM | I/O | 3.1 |
| 122 | D14 | | I/O | 0 |
| 123 | D15 | | I/O | 0 |
| 124 | - | - | - | - |
| 125 | CVDD6 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 126 | CVSS10 | GND | - | 0 |
| 127 | - | - | - | - |
| 128 | DVSS8 | I/O system (3.3V) power supply | - | 0 |
| 129 | - | - | - | - |
| 130 | DVDD6 | I/O system (3.3V) power supply | - | 3.1 |
| 131 | A0 | Address bus of FLASH ROM | O | 3.1 |
| 132 | A1 | | O | 0 |
| 133 | A2 | | O | 0 |
| 134 | A3 | | O | 0 |
| 135 | /RST | Reset signal output(To Servo DSP) | O | 3.1 |
| 136 | A4 | Address bus of FLASH ROM | O | 0 |
| 137 | A5 | | O | 3.1 |
| 138 | A6 | | O | 3.1 |
| 139 | A7 | | O | 0 |
| 140 | A8 | | O | 3.1 |
| 141 | A9 | | O | 3.1 |
| 142 | CVDD7 | CORE CPU system (1.6V) power supply | - | 1.6 |
| 143 | A12 | TP406 | - | 0 |
| 144 | DVSS9 | GND | - | 0 |

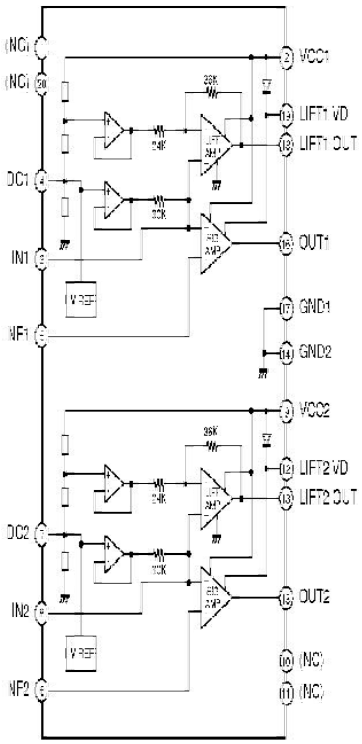
# 11. IC BLOCK DIAGRAM

## 11.1. Main Block

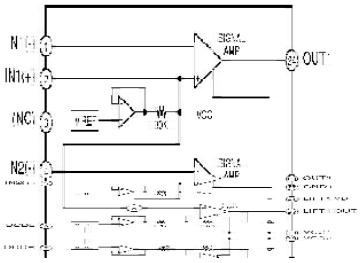
IC201 : C1BB00000796



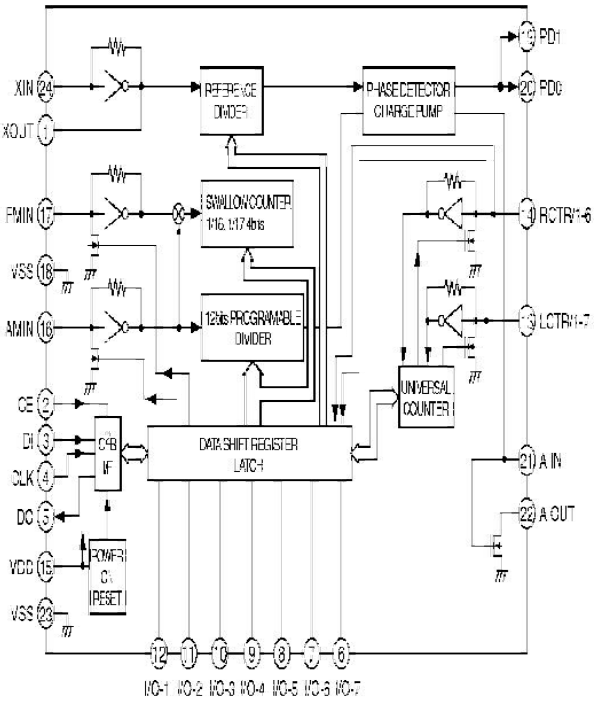
IC241 : C1BB00001047



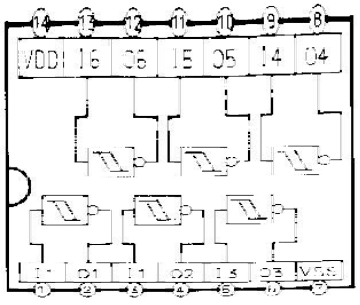

**IC251 : C1BB00001046**



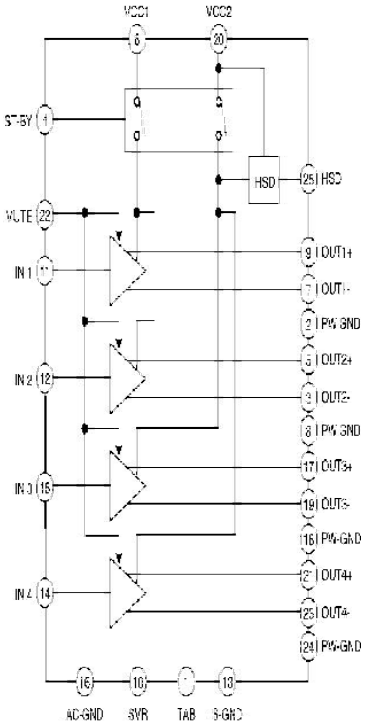

**IC401 : C1BB00001045**



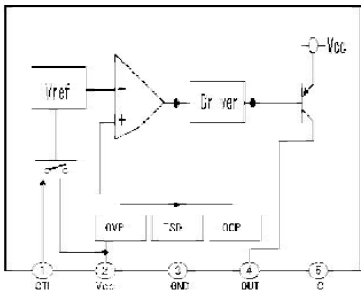

**IC670 : YEAMC14584BE**




**IC271 : C1EA00000043**

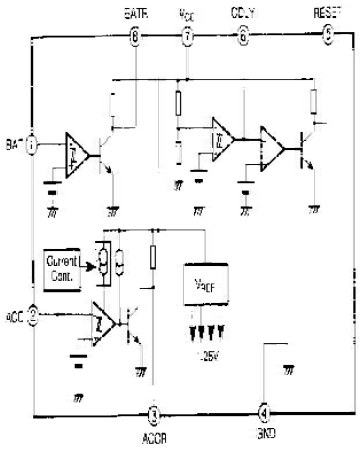



**IC730 : C0DAEKG00002**

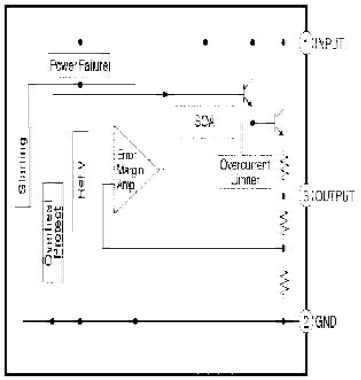



**IC701 : C0DAZHF00004**

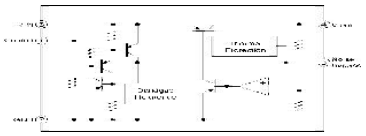
**IC702 : AN8065S-E1V**




IC752 : C0CAABG00012



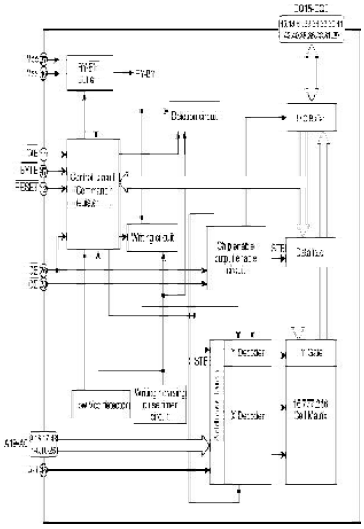

IC755 : C0DBZGD00040



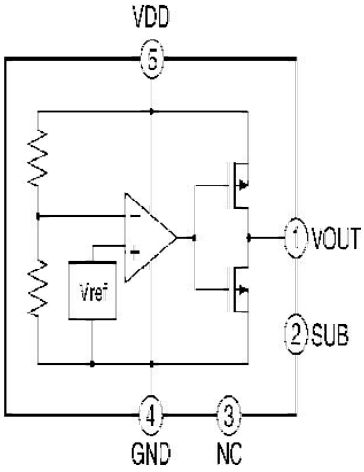
IC760 : C0GBG0000032

## 11.2. Display Block

IC901 : C3FBMD000209



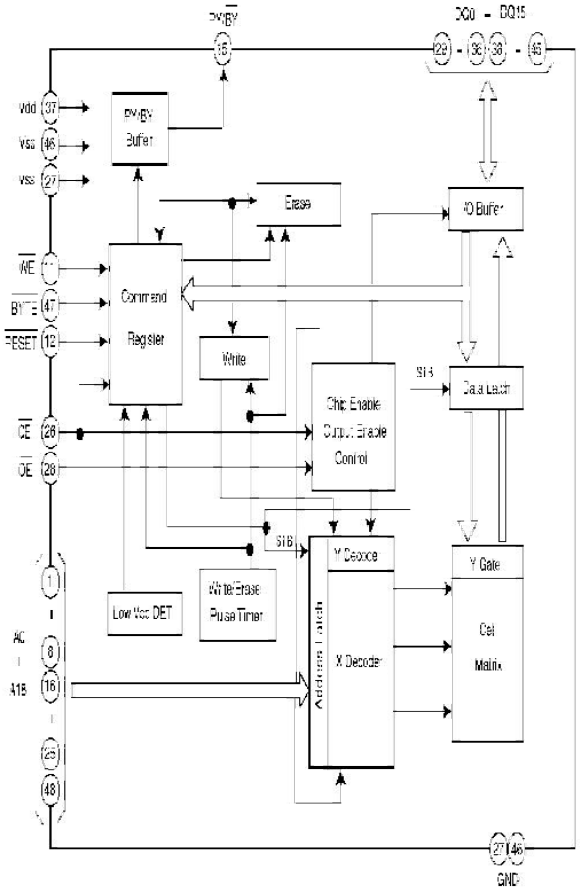
IC902 : C0EBF0000374



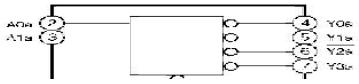

IC903 : B3MBZ0000006

## 11.3. CD Servo Block

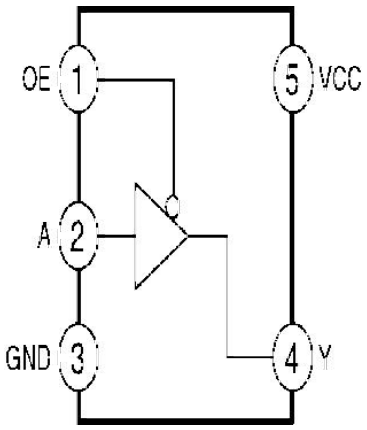
IC402 : YESAM280



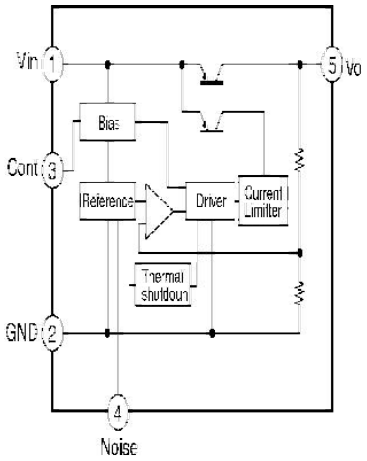

**IC403 : YESAM171**



**IC405 : YESAM270**




IC404 : YESAM178




# 12. REPLACEMENT PARTS LIST

**Notes :**

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ; mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

   **- Order intake period is basically six months after the first shipment.**

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| [E3042] Main/Connector Block | | | |
| IC's AND TRANSISTORs | | | |
| IC201 | C1BB00000796 | IC | |
| IC241 | C1BB00001047 | IC | |
| IC251 | C1BB00001046 | IC | |
| IC271 | C1EA00000043 | IC | |
| IC401 | C1BB00001045 | IC | |
| IC601 | C2CBJG000589 | IC | |
| IC630 | C0JBAA000372 | IC | |
| IC650 | C0JBAA000372 | IC | |
| IC670 | YEAMC14584BE | IC | |
| IC701 | C0DAZHF00004 | IC | |
| IC702 | AN8065S-E1V | IC | |
| IC730 | C0DAEKG00002 | IC | |
| IC752 | C0CAABG00012 | IC | |
| IC755 | C0DBZGD00040 | IC | |
| IC760 | C0GBG0000032 | IC | |
| PA51 | C5BA00000123 | Electronic Tuner | |
| Q55 | B1GDGFEH0001 | Transistor | |
| Q56 | B1AAEC000002 | Transistor | |
| Q220 | B1GBCFNN0004 | Transistor | |
| Q262 | B1GBHBEA0004 | Transistor | |
| Q266 | B1GBHBEA0004 | Transistor | |
| Q320 | B1GBCFNN0004 | Transistor | |
| Q346 | B1GBHBEA0004 | Transistor | |
| Q362 | B1GBHBEA0004 | Transistor | |
| Q366 | B1GBHBEA0004 | Transistor | |
| Q372 | YEANC114YKX | Transistor | |
| Q376 | B1GBCFNN0004 | Transistor | |
| Q411 | B1CBGF000005 | Transistor | |
| Q630 | B1GBCFNN0004 | Transistor | |
| Q633 | B1GDCFJJ0002 | Transistor | |
| Q650 | YEANC114YKX | Transistor | |
| Q651 | B1GBCFNN0004 | Transistor | |
| Q652 | B1GBCFNN0004 | Transistor | |
| Q667 | B1GBCFNL0001 | Transistor | |
| Q680 | B1GDGFEH0001 | Transistor | |
| Q681 | B1GDCFJJ0002 | Transistor | |
| Q701 | 2SD2139TA | Transistor | |
| Q730 | B1GBCFNN0004 | Transistor | |
| Q731 | B1GBCFNN0004 | Transistor | |
| Q760 | B1GBCFNN0004 | Transistor | |
| Q790 | B1GBNCEJ0003 | Transistor | |
| Q791 | B1GBNCEJ0003 | Transistor | |
| Q792 | YEANC114YKX | Transistor | |
| Q793 | YEANC114YKX | Transistor | |
| | | | |
| | | | |
| DIODEs | | | |
| D201 | B0JCME000012 | Diode | |
| D202 | B0JCME000012 | Diode | |
| D203 | B0JCME000012 | Diode | |
| D204 | B0JCME000012 | Diode | |
| D301 | B0JCME000012 | Diode | |
| D302 | B0JCME000012 | Diode | |
| D303 | B0JCME000012 | Diode | |
| D304 | B0JCME000012 | Diode | |

| | | | |
|---|---|---|---|
| [redacted] | [redacted] | [redacted] | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D346 | B0JCMC000004 | Diode | |
| D601 | B0JCMC000004 | Diode | |
| D630 | B3AAB0000143 | Diode | |
| D631 | B0BC5R600003 | Diode | |
| D635 | B0BC5R600003 | Diode | |
| D636 | B0BC5R600003 | Diode | |
| D637 | B0BC5R600003 | Diode | |
| D638 | B0BC5R600003 | Diode | |
| D639 | B0BC5R600003 | Diode | |
| D670 | B0JCMC000004 | Diode | |
| D671 | MA3X152A0L | Diode | |
| D701 | YEADDAM3MA47 | Diode | |
| D702 | MA736TX | Diode | |
| D703 | B0BC5R7A0062 | Diode | |
| D704 | B0JCMC000004 | Diode | |
| D705 | B0JCME000012 | Diode | |
| D706 | B0JCME000012 | Diode | |
| D707 | YEADRB051L40 | Diode | |
| D708 | MA736TX | Diode | |
| D710 | B0JCMC000004 | Diode | |
| D715 | MA3X152A0L | Diode | |
| D716 | MA721TX | Diode | |
| D760 | B0BC5R000020 | Diode | |
| D761 | B0BC3R0A0058 | Diode | |
| D770 | B0JCMC000004 | Diode | |
| D771 | B0JCMC000004 | Diode | |
| | | | |
| | | | |
| CAPACITORs | | | |
| C52 | YECUS1H470JC | Ceramic, 47PF 50WV | |
| C53 | F1J1H103A513 | Ceramic, 0.01 μ F 50WV | |
| C54 | F2A1A221A449 | Electrolytic, 220 μ F 10WV | |
| C55 | F1J1H103A513 | Ceramic, 0.01 F 50WV | |
| C56 | F3F1E105A001 | Tantalum, 1 F 25WV | |
| C57 | F2A1A101A450 | Electrolytic, 100 F 10WV | |
| C61 | YECUS1H183KX | Ceramic, 0.018 F 50WV | |
| C62 | YECUS1H183KX | Ceramic, 0.018 F 50WV | |
| C65 | F1J1H1020024 | Ceramic, 1000PF 50WV | |
| C206 | F2A1C100A502 | Electrolytic, 10 F 16WV | |
| C213 | F1J1A2250004 | Ceramic, 2.2 F 10WV | |
| C215 | F1J1A2250004 | Ceramic, 2.2 F 10WV | |
| C217 | YECUS1C334KX | Ceramic, 0.33 F 16WV | |
| C220 | F2A1H2R2A634 | Electrolytic, 2.2 F 50WV | |
| C244 | YECUV2A152KX | Ceramic, 1500PF 100WV | |
| C245 | F2A1C1010089 | Electrolytic, 100 F 16WV | |
| C246 | YECUS1C104KX | Ceramic, 0.1 F 16WV | |
| C247 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |
| C248 | F2A0J470A558 | Electrolytic, 47 F 6.3WV | |
| C249 | YECUS1C104KX | Ceramic, 0.1 F 16WV | |
| C251 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C254 | F1J1H152A675 | Ceramic, 1500PF 50WV | |
| C255 | F2A1C1010089 | Electrolytic, 100 μ F 16WV | |
| C257 | F2A1H4R7A632 | Electrolytic, 4.7 μ F 50WV | |
| C259 | YECUS1C104KX | Ceramic, 0.1 μ F 16WV | |
| C261 | F2A1H4R7A632 | Electrolytic, 4.7 μ F 50WV | |
| C263 | ECQV1H474JL2 | Plastic Film, 0.47 μ F 50WV | |
| C265 | F2A1H4R7A632 | Electrolytic, 4.7 μ F 50WV | |
| C267 | ECQV1H474JL2 | Plastic Film, 0.47 μ F 50WV | |
| C271 | F1J1H472A675 | Ceramic, 4700PF 50WV | |
| C272 | F1J1H472A675 | Ceramic, 4700PF 50WV | |
| C274 | F2A1C4700073 | Electrolytic, 47 μ F 16WV | |
| C275 | F1J1C1050013 | Ceramic, 1 μ F 16WV | |
| C278 | YECUS1E104ZF | Ceramic, 0.1 μ F 25WV | |
| C279 | F2A1C4720027 | Electrolytic, 4700 μ F 16WV | |
| C306 | F2A1C100A502 | Electrolytic, 10 μ F 16WV | |
| C313 | F1J1A2250004 | Ceramic, 2.2 μ F 10WV | |
| C315 | F1J1A2250004 | Ceramic, 2.2 μ F 10WV | |
| C317 | YECUS1C334KX | Ceramic, 0.33 μ F 16WV | |
| C320 | F2A1H2R2A634 | Electrolytic, 2.2 μ F 50WV | |
| C323 | F2A1C100A502 | Electrolytic, 10 μ F 16WV | |
| C324 | F2A1H2R2A634 | Electrolytic, 2.2 μ F 50WV | |
| C325 | F2A1H2R2A634 | Electrolytic, 2.2 μ F 50WV | |
| C326 | F1J1A2250004 | Ceramic, 2.2 μ F 10WV | |
| C327 | F2A1A221A449 | Electrolytic, 220 μ F 10WV | |
| C328 | F1J1H103A513 | Ceramic, 0.01 F 50WV | |
| C331 | F1J1A2250004 | Ceramic, 2.2 F 10WV | |
| C345 | F2A1C100A502 | Electrolytic, 10 F 16WV | |
| C349 | F2A1A221A449 | Electrolytic, 220 F 10WV | |
| C351 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |
| C354 | F1J1H152A675 | Ceramic, 1500PF 50WV | |
| C355 | F2A1C1010089 | Electrolytic, 100 F 16WV | |
| C357 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |
| C358 | ECEA0JKA221I | Electrolytic, 220 F 6.3WV | |
| C359 | F2A1A221A449 | Electrolytic, 220 F 10WV | |
| C361 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |
| C363 | ECQV1H474JL2 | Plastic Film, 0.47 F 50WV | |
| C365 | F2A1H4R7A632 | Electrolytic, 4.7 F 50WV | |
| C367 | ECQV1H474JL2 | Plastic Film, 0.47 F 50WV | |
| C371 | F1J1H472A675 | Ceramic, 4700PF 50WV | |
| C372 | F1J1H472A675 | Ceramic, 4700PF 50WV | |
| C374 | F2A1H2R20044 | Electrolytic, 2.2 F 50WV | |
| C375 | F2A1C100A502 | Electrolytic, 10 F 16WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C378 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| C401 | F1J1H120A034 | Ceramic, 12PF 50WV | |
| C402 | F1J1H120A034 | Ceramic, 12PF 50WV | |
| C403 | F2A0J101A500 | Electrolytic, 100 μF 6.3WV | |
| C404 | F1J1H103A513 | Ceramic, 0.01 μF 50WV | |
| C405 | F1H1H101A231 | Ceramic, 100PF 50WV | |
| C411 | F1J1H103A513 | Ceramic, 0.01 μF 50WV | |
| C412 | YECUS1E223KX | Ceramic, 0.022 μF 25WV | |
| C413 | ECQV1H224JL2 | Plastic Film, 0.22 μF 50WV | |
| C414 | F2A1A221A449 | Electrolytic, 220 μF 10WV | |
| C601 | YECUZ1C104KX | Ceramic, 0.1 μF 16WV | |
| C602 | YECUZ1H103KX | Ceramic, 0.01 μF 50WV | |
| C603 | F2A0J3310051 | Electrolytic, 330 μF 6.3WV | |
| C604 | EECS0HD104H | Electrolytic, 0.1 μF 5.5WV | |
| C605 | YECUZ1C104KX | Ceramic, 0.1 μF 16WV | |
| C606 | F1H1H180A231 | Ceramic, 18PF 50WV | |
| C607 | F1J1H180A034 | Ceramic, 18PF 50WV | |
| C608 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C609 | F1J1A106A023 | Ceramic, 10 μF 10WV | |
| C610 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C631 | F2A1H4R7A632 | Electrolytic, 4.7 μF 50WV | |
| C632 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| C633 | F2A1C470A630 | Electrolytic, 47 μF 16WV | |
| C634 | YECUZ1H103KX | Ceramic, 0.01 μF 50WV | |
| C635 | F1J1H103A513 | Ceramic, 0.01 μF 50WV | |
| C650 | F1J1H103A513 | Ceramic, 0.01 F 50WV | |
| C670 | F2A1C100A502 | Electrolytic, 10 F 16WV | |
| C671 | YECUZ1H103KX | Ceramic, 0.01 F 50WV | |
| C680 | F2A1H2R2A634 | Electrolytic, 2.2 F 50WV | |
| C701 | F1H1A154A007 | Ceramic, 0.15 F 10WV | |
| C702 | F2A1C1020069 | Electrolytic, 1000 F 16WV | |
| C704 | F2A0J470A558 | Electrolytic, 47 F 6.3WV | |
| C705 | YECUZ1H103KX | Ceramic, 0.01 F 50WV | |
| C706 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |
| C707 | F2A1C1020069 | Electrolytic, 1000 F 16WV | |
| C708 | ECEA1HKS010I | Electrolytic, 1 F 50WV | |
| C713 | YECUS1C474KX | Ceramic, 0.47 F 16WV | |
| C715 | YECUS1E104ZF | Ceramic, 0.1 F 25WV | |
| C716 | YECUS1C104KX | Ceramic, 0.1 F 16WV | |
| C717 | YECUS1C104KX | Ceramic, 0.1 F 16WV | |
| C718 | YECUS1E104ZF | Ceramic, 0.1 F 25WV | |
| C719 | EEAFC1A820H | Electrolytic, 82 F 10WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C720 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C721 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C730 | F1K1E334A022 | Ceramic, 0.33 μF 25WV | |
| C731 | YECUX1C334KX | Ceramic, 0.33 μF 16WV | |
| C732 | EEAFC1C560H | Electrolytic, 56 μF 16WV | |
| C752 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C753 | YECUS1C104KX | Ceramic, 0.1 μF 16WV | |
| C754 | EEAFC0J560H | Electrolytic, 56 μF 6.3WV | |
| C755 | YECUZ1C104KX | Ceramic, 0.1 μF 16WV | |
| C756 | F1J1C1050013 | Ceramic, 1 μF 16WV | |
| C757 | YECUZ1H103KX | Ceramic, 0.01 μF 50WV | |
| C758 | F2A0J470A558 | Electrolytic, 47 μF 6.3WV | |
| C760 | YECUZ1H103KX | Ceramic, 0.01 μF 50WV | |
| C761 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| C762 | F2A1C470A630 | Electrolytic, 47 μF 16WV | |
| C763 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| C795 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| C797 | YECUS1E104ZF | Ceramic, 0.1 μF 25WV | |
| | | | |
| | | | |
| RESISTORs | | | |
| J401 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J403 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J404 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J409 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J411 | ERJ6GEY0R00V | Chip, 0 1/10W | |
| J501 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J502 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J503 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J504 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J506 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J509 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J510 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J513 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J514 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J515 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J517 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J518 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J520 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J521 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J522 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J523 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J524 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J525 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J526 | ERJ8GX0R00V | Chip, 0 1/8W | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| J527 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J528 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J529 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J531 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J534 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J536 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J537 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J538 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J539 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J540 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J541 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J542 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J544 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J545 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J546 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J547 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J550 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J551 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J552 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J553 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J554 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J555 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J558 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J559 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| J560 | ERJ8GEY0R00V | Chip, 0 Ω 1/8W | |
| J561 | ERJ8GEY0R00V | Chip, 0 Ω 1/8W | |
| J562 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| J563 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J564 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J565 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J566 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J567 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J568 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J570 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J571 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J572 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J573 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J575 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J576 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J578 | ERJ6GEY0R00V | Chip, 0 1/10W | |
| J579 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J580 | ERJ8GX0R00V | Chip, 0 1/8W | |
| J582 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| J583 | ERJ8GEY0R00V | Chip, 0 1/8W | |
| L295 | ERJ6GEYJ4R7 | Chip, 4.7 1/10W | |
| L296 | ERJ6GEYJ4R7 | Chip, 4.7 1/10W | |
| L395 | ERJ6GEYJ4R7 | Chip, 4.7 1/10W | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| L396 | ERJ6GEYJ4R7 | Chip, 4.7 Ω 1/10W | |
| R50 | ERJ6GEYJ5R6V | Chip, 5.6 Ω 1/10W | |
| R51 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| R54 | ERJ6GEYJ101 | Chip, 100 Ω 1/10W | |
| R55 | ERJ6GEYJ331 | Chip, 330 Ω 1/10W | |
| R56 | ERJ6GEYJ102 | Chip, 1k Ω 1/10W | |
| R59 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R65 | ERJ6GEYJ393 | Chip, 39k Ω 1/10W | |
| R202 | ERJ6GEYJ152 | Chip, 1.5k Ω 1/10W | |
| R203 | ERJ6GEYJ103 | Chip, 10k Ω 1/10W | |
| R213 | ERJ3GEYJ562V | Chip, 5.6k Ω 1/16W | |
| R214 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R215 | ERJ3GEYJ472V | Chip, 4.7k Ω 1/16W | |
| R216 | ERJ3GEYJ123V | Chip, 12k Ω 1/16W | |
| R217 | ERJ3GEYJ183V | Chip, 18k Ω 1/16W | |
| R220 | ERJ3GEYJ750V | Chip, 75 Ω 1/16W | |
| R221 | ERJ3GEYJ393V | Chip, 39k Ω 1/16W | |
| R244 | ERJ6GEYJ393 | Chip, 39k Ω 1/10W | |
| R245 | ERJ6GEYJ273 | Chip, 27k Ω 1/10W | |
| R248 | ERJ6GEYJ4R7 | Chip, 4.7 Ω 1/10W | |
| R252 | ERJ3GEYJ393V | Chip, 39k Ω 1/16W | |
| R253 | ERJ6GEYJ273 | Chip, 27k Ω 1/10W | |
| R254 | ERJ8GEYJ393V | Chip, 39k Ω 1/8W | |
| R255 | ERJ3GEYJ273V | Chip, 27k Ω 1/16W | |
| R261 | ERJ6GEYJ560 | Chip, 56 Ω 1/10W | |
| R262 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R263 | ERJ6GEYJ561 | Chip, 560 Ω 1/10W | |
| R265 | ERJ6GEYJ560 | Chip, 56 1/10W | |
| R266 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R267 | ERJ8GEYJ561V | Chip, 560 1/8W | |
| R275 | ERJ8GEYJ223V | Chip, 22k 1/8W | |
| R302 | ERJ6GEYJ152 | Chip, 1.5k 1/10W | |
| R303 | ERJ6GEYJ103 | Chip, 10k 1/10W | |
| R313 | ERJ3GEYJ562V | Chip, 5.6k 1/16W | |
| R314 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R315 | ERJ3GEYJ472V | Chip, 4.7k 1/16W | |
| R316 | ERJ3GEYJ123V | Chip, 12k 1/16W | |
| R317 | ERJ3GEYJ183V | Chip, 18k 1/16W | |
| R320 | ERJ3GEYJ750V | Chip, 75 1/16W | |
| R321 | ERJ6GEYJ393 | Chip, 39k 1/10W | |
| R323 | ERJ3GEYJ102V | Chip, 1k 1/16W | |
| R324 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R325 | ERJ6GEYJ102 | Chip, 1k 1/10W | |
| R326 | ERJ6GEYJ101 | Chip, 100 1/10W | |
| R327 | ERJ6GEYJ823 | Chip, 82k 1/10W | |
| R330 | ERJ6GEYJ221V | Chip, 220 1/10W | |
| R345 | ERJ6GEYJ560 | Chip, 56 1/10W | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R346 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R348 | ERJ3GEYJ4R7V | Chip, 4.7 Ω 1/16W | |
| R352 | ERJ8GEYJ393V | Chip, 39k Ω 1/8W | |
| R353 | ERJ3GEYJ273V | Chip, 27k Ω 1/16W | |
| R354 | ERJ6GEYJ393 | Chip, 39k Ω 1/10W | |
| R355 | ERJ3GEYJ273V | Chip, 27k Ω 1/16W | |
| R361 | ERJ6GEYJ560 | Chip, 56 Ω 1/10W | |
| R362 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R363 | ERJ6GEYJ561 | Chip, 560 Ω 1/10W | |
| R365 | ERJ6GEYJ560 | Chip, 56 Ω 1/10W | |
| R366 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R367 | ERJ6GEYJ561 | Chip, 560 Ω 1/10W | |
| R373 | ERJ3GEYJ183V | Chip, 18k Ω 1/16W | |
| R375 | ERJ6GEYJ562 | Chip, 5.6k Ω 1/10W | |
| R376 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R401 | ERJ3GEYJ152V | Chip, 1.5k Ω 1/16W | |
| R402 | ERJ3GEYJ472V | Chip, 4.7k Ω 1/16W | |
| R403 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R404 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R405 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R406 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R407 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R408 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R409 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R410 | ERJ3GEY0R00V | Chip, 0 Ω 1/16W | |
| R411 | ERJ3GEY0R00V | Chip, 0 Ω 1/16W | |
| R413 | ERJ6GEYJ182 | Chip, 1.8k Ω 1/10W | |
| R414 | ERJ8GEYJ561V | Chip, 560 1/8W | |
| R417 | ERJ3GEYJ100V | Chip, 10 1/16W | |
| R601 | ERJ3GEYJ432V | Chip, 4.3k 1/16W | |
| R602 | ERJ3GEYJ432V | Chip, 4.3k 1/16W | |
| R605 | ERJ3GEYJ102V | Chip, 1k 1/16W | |
| R607 | ERJ3GEYJ333V | Chip, 33k 1/16W | |
| R608 | ERJ3GEYJ822V | Chip, 8.2k 1/16W | |
| R609 | ERJ3GEYJ223V | Chip, 22k 1/16W | |
| R610 | ERJ3GEYJ473V | Chip, 47k 1/16W | |
| R611 | ERJ3GEYJ473V | Chip, 47k 1/16W | |
| R613 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R614 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R615 | ERJ6GEYJ103 | Chip, 10k 1/10W | |
| R617 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R618 | ERJ3GEYJ223V | Chip, 22k 1/16W | |
| R619 | ERJ3GEYJ184V | Chip, 180k 1/16W | |
| R620 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R621 | ERJ3GEY0R00V | Chip, 0 1/16W | |
| R622 | ERJ6GEYJ473 | Chip, 47k 1/10W | |
| R625 | ERJ3GEYJ473V | Chip, 47k 1/16W | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R626 | ERJ6GEYJ102 | Chip, 1k Ω 1/10W | |
| R627 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R628 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R631 | ERJ6GEYJ821 | Chip, 820 Ω 1/10W | |
| R632 | ERJ6GEY0R00V | Chip, 0 Ω 1/10W | |
| R634 | ERJ6GEYJ561 | Chip, 560 Ω 1/10W | |
| R638 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R639 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| R640 | ERJ6GEYJ561 | Chip, 560 Ω 1/10W | |
| R643 | ERJ3GEYJ184V | Chip, 180k Ω 1/16W | |
| R646 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R653 | ERJ3GEYJ512V | Chip, 5.1k Ω 1/16W | |
| R654 | ERJ6GEYJ512V | Chip, 5.1k Ω 1/10W | |
| R655 | ERJ6GEYJ103 | Chip, 10k Ω 1/10W | |
| R656 | ERJ6GEYJ272 | Chip, 2.7k Ω 1/10W | |
| R657 | ERJ3GEYJ272V | Chip, 2.7k Ω 1/16W | |
| R658 | ERJ6GEYJ473 | Chip, 47k Ω 1/10W | |
| R659 | ERJ6GEYJ272 | Chip, 2.7k Ω 1/10W | |
| R660 | ERJ6GEYJ272 | Chip, 2.7k Ω 1/10W | |
| R661 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R662 | ERJ8GEYJ472V | Chip, 4.7k Ω 1/8W | |
| R663 | ERJ6GEYJ512V | Chip, 5.1k Ω 1/10W | |
| R664 | ERJ6GEYJ512V | Chip, 5.1k Ω 1/10W | |
| R667 | ERJ6GEYJ103 | Chip, 10k Ω 1/10W | |
| R670 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R671 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R672 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R673 | ERJ3GEYJ104V | Chip, 100k 1/16W | |
| R674 | ERJ3GEYJ272V | Chip, 2.7k 1/16W | |
| R675 | ERJ6GEYJ272 | Chip, 2.7k 1/10W | |
| R676 | ERJ6GEYJ472 | Chip, 4.7k 1/10W | |
| R677 | ERJ6GEYJ561 | Chip, 560 1/10W | |
| R680 | ERJ6GEYJ561 | Chip, 560 1/10W | |
| R681 | ERJ6GEYJ562 | Chip, 5.6k 1/10W | |
| R682 | ERJ3GEYJ473V | Chip, 47k 1/16W | |
| R684 | ERJ6GEYJ561 | Chip, 560 1/10W | |
| R685 | ERJ3GEYJ561V | Chip, 560 1/16W | |
| R686 | ERJ3GEYJ561V | Chip, 560 1/16W | |
| R701 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R702 | ERJ3GEYJ274V | Chip, 270k 1/16W | |
| R703 | ERJ3GEYJ433V | Chip, 43k 1/16W | |
| R704 | ERJ8GEYJ4R7V | Chip, 4.7 1/8W | |
| R705 | ERJ8GEYJ682V | Chip, 6.8k 1/8W | |
| R715 | ERJ3GEYJ472V | Chip, 4.7k 1/16W | |
| R716 | ERJ6GEYJ473 | Chip, 47k 1/10W | |
| R717 | ERJ3GEYJ433V | Chip, 43k 1/16W | |
| R730 | ERJ6ENF6802V | Chip, 68k 1/10W | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R731 | ERJ6ENF2203V | Chip, 220k Ω 1/10W | |
| R732 | ERJ6ENF1802V | Chip, 18k Ω 1/10W | |
| R733 | ERJ6ENF1303V | Chip, 130k Ω 1/10W | |
| R734 | ERJ6ENF2201V | Chip, 2.2k Ω 1/10W | |
| R755 | ERJ6GEYJ102 | Chip, 1k Ω 1/10W | |
| R760 | ERJ6GEYJ152 | Chip, 1.5k Ω 1/10W | |
| R761 | ERDS1FJ3R9 | Carbon, 3.9 Ω 1/2W | |
| R780 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| R781 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| R782 | ERJ8GX0R00V | Chip, 0 Ω 1/8W | |
| R790 | ERJ3GEYJ223V | Chip, 22k Ω 1/16W | |
| R791 | ERJ6GEYJ223 | Chip, 22k Ω 1/10W | |
| R795 | ERJ3GEYJ102V | Chip, 1k Ω 1/16W | |
| | | | |
| | | | |
| CONNECTORs | | | |
| CN251 | K2KF29Z00027 | Plug, 4P | |
| CN253 | K2KF29Z00031 | Plug, 4P | |
| CN302 | K2HA104B0010 | Jack | |
| CN351 | K2KF29Z00026 | Plug, 4P | |
| CN601 | K1MN16BA0111 | Connector, 16P | |
| CN651 | K1KA18A00074 | Connector, 18P | |
| CN670 | K1PQ07A00004 | Connector, 7P | |
| CN680 | YEAE012307 | Connector, 8P | |
| CN701 | K1FA116B0028 | Connector, 16P | |
| CN760 | YEAE5339802 | Connector, 2P | |
| | | | |
| | | | |
| COILs | | | |
| L50 | G1C150K00011 | Coil | |
| L52 | G1CR56JA0036 | Coil | |
| L53 | G1C101JA0036 | Coil | |
| L401 | G1C101JA0036 | Coil | |
| L601 | G1C330JA0036 | Coil | |
| L602 | G1C101JA0036 | Coil | |
| L603 | G1C330JA0036 | Coil | |
| L630 | ELEAR330KA | Choke Coil | |
| L701 | YELTBL01R1AT | Coil | |
| L702 | G0A151J00006 | Coil | |
| | | | |
| | | | |
| | | | |
| SWITCHes | | | |
| SW601 | K0L1BA000099 | Switch | |
| SW602 | K0L1BA000104 | Switch | |
| | | | |
| | | | |
| CRYSTALs | | | |
| XL401 | H0D720400006 | Crystal Oscillator | |
| XL601 | H0J419400009 | Crystal Oscillator | |
| | | | |
| | | | |
| NETWORK RESISTOR | | | |
| R606 | EXBV8V102JV | Network Resistor | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | | |
| FILTER | | | |
| Z50 | J0LM00000001 | Noise Filter | |
| | | | |
| | | | |
| THERMISTOR | | | |
| PT701 | YERT7AR4R7MT | Thermistor | |
| | | | |
| | | | |
| | | | |
| [E9571] Display Block | | | |
| IC's AND TRANSISTORs | | | |
| IC900 | C2CBJH000095 | IC | |
| IC901 | C3FBMD000209 | IC | |
| IC902 | C0EBF0000374 | IC | |
| IC903 | B3MBZ0000006 | IC | |
| Q901 | B1GBCFNN0009 | Transistor | |
| Q902 | DTA144EKAT46 | Transistor | |
| Q903 | B1GBCFNN0004 | Transistor | |
| Q904 | B1GBCFNN0004 | Transistor | |
| Q913 | YEANSSTA06T | Transistor | |
| Q914 | YEANSSTA06T | Transistor | |
| | | | |
| | | | |
| DIODEs | | | |
| D901 | B0BC5R600003 | Diode | |
| D903 | B0BC4R000006 | Diode | |
| D904 | B0BC5R600003 | Diode | |
| D905 | B0BC5R600003 | Diode | |
| D906 | B0BC01100039 | Diode | |
| D907 | B3AEB0000051 | Diode | |
| D909 | MA152WKTX | Diode | |
| D910 | B0BC4R000006 | Diode | |
| D911 | B0BC4R000006 | Diode | |
| D912 | B0BC4R000006 | Diode | |
| D913 | B0BC4R000006 | Diode | |
| D914 | B0BC4R000006 | Diode | |
| D916 | B0JCMC000004 | Diode | |
| D917 | B0BC4R000006 | Diode | |
| D918 | B0BC4R000006 | Diode | |
| D919 | B0BC4R000006 | Diode | |
| D920 | B0BC4R000006 | Diode | |
| D923 | B0BC4R000006 | Diode | |
| | | | |
| | | | |
| CAPACITORs | | | |
| C902 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |
| C903 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |
| C904 | ECST1CX106R | Tantalum, 10 F 16WV | |
| C905 | F1H1H100A226 | Ceramic, 10PF 50WV | |
| C906 | F1H1H100A226 | Ceramic, 10PF 50WV | |
| C907 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |
| C908 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C911 | YECUZ1C104KX | Ceramic, 0.1 μ F 16WV | |
| C912 | ECST1CX106R | Tantalum, 10 μ F 16WV | |
| C913 | YECUZ1C104KX | Ceramic, 0.1 μ F 16WV | |
| C914 | YECUS1C105ZF | Ceramic, 1 μ F 16WV | |
| C915 | YECUS1C105ZF | Ceramic, 1 μ F 16WV | |
| C916 | F1J1H102A672 | Ceramic, 1000PF 50WV | |
| C919 | YECUZ1H103KX | Ceramic, 0.01 μ F 50WV | |
| C925 | F2H1C220A016 | Ceramic, 22PF 16WV | |
| C926 | F1J1H562A675 | Ceramic, 5600PF 50WV | |
| C927 | YECUS1E104ZF | Ceramic, 0.1 μ F 25WV | |
| C928 | F0F2A223A005 | Plastic Film, 0.022 μ F 100WV | |
| C929 | F1L3F1200001 | Ceramic, 12PF 3.16kWV | |
| C931 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C932 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C933 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C934 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C935 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C936 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C937 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C938 | YECUZ1C104KX | Ceramic, 0.1 μ F 16WV | |
| C939 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C940 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C941 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C942 | YECUV1C225KX | Ceramic, 2.2 μ F 16WV | |
| C973 | YECUZ1H103KX | Ceramic, 0.01 〃 F 50WV | |
| C974 | YECUZ1H103KX | Ceramic, 0.01 F 50WV | |
| R921 | YECUZ1C104KX | Ceramic, 0.1 F 16WV | |
| | | | |
| | | | |
| RESISTORs | | | |
| FB901 | ERJ6GEY0R00V | Chip, 0 1/10W | |
| FB902 | ERJ6GEY0R00V | Chip, 0 1/10W | |
| FB903 | ERJ6GEY0R00V | Chip, 0 1/10W | |
| R901 | ERJ3GEYJ221V | Chip, 220 1/16W | |
| R902 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R903 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R904 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R905 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R906 | ERJ3GEYJ221V | Chip, 220 1/16W | |
| R907 | ERJ3GEYJ221V | Chip, 220 1/16W | |
| R908 | ERJ3GEYJ102V | Chip, 1k 1/16W | |
| R909 | ERJ3GEYJ221V | Chip, 220 1/16W | |
| R910 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R911 | ERJ3GEYJ222V | Chip, 2.2k 1/16W | |
| R912 | ERJ3GEYJ222V | Chip, 2.2k 1/16W | |

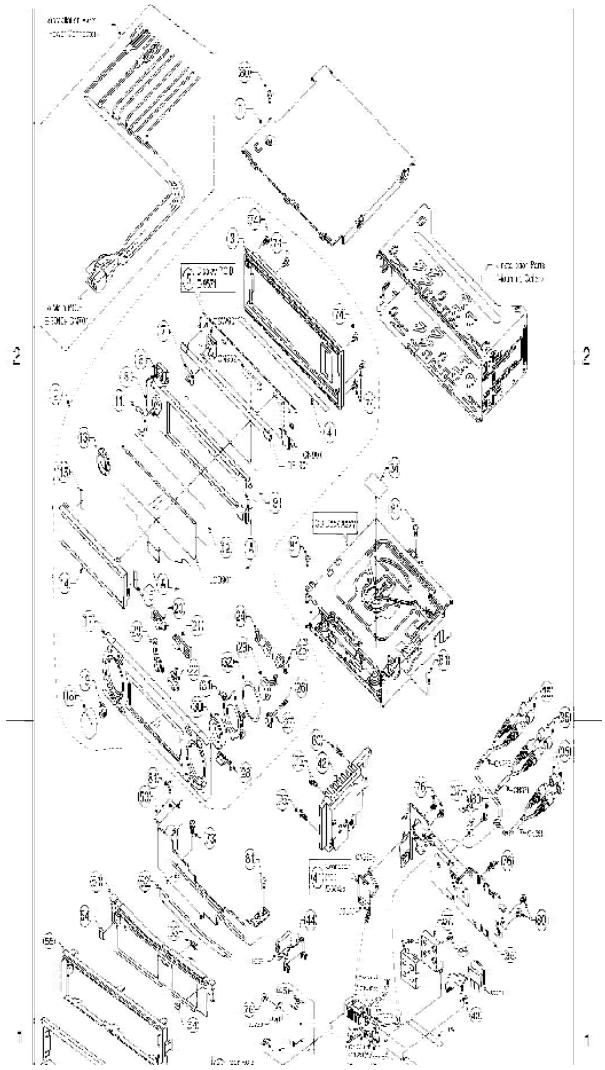
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R913 | ERJ3GEYJ222V | Chip, 2.2k Ω 1/16W | |
| R914 | ERJ3GEYJ222V | Chip, 2.2k Ω 1/16W | |
| R916 | ERJ3GEYJ184V | Chip, 180k Ω 1/16W | |
| R917 | ERJ3GEYJ184V | Chip, 180k Ω 1/16W | |
| R918 | ERJ3GEYJ184V | Chip, 180k Ω 1/16W | |
| R919 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R923 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R924 | ERJ3GEYJ104V | Chip, 100k Ω 1/16W | |
| R925 | ERJ3GEYJ302V | Chip, 3k Ω 1/16W | |
| R926 | ERJ3GEYJ302V | Chip, 3k Ω 1/16W | |
| R927 | ERJ3GEYJ122V | Chip, 1.2k Ω 1/16W | |
| R928 | ERJ3GEYJ222V | Chip, 2.2k Ω 1/16W | |
| R929 | ERJ3GEYJ122V | Chip, 1.2k Ω 1/16W | |
| R931 | ERJ3GEYJ473V | Chip, 47k Ω 1/16W | |
| R932 | ERJ3GEYJ101V | Chip, 100 Ω 1/16W | |
| R933 | ERJ3GEYJ821V | Chip, 820 Ω 1/16W | |
| R934 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R935 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R936 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R937 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R938 | ERJ3GEYJ124V | Chip, 120k Ω 1/16W | |
| R939 | ERJ3GEYJ221V | Chip, 220 Ω 1/16W | |
| R950 | ERJ3GEYJ103V | Chip, 10k Ω 1/16W | |
| R951 | ERJ3GEYJ153V | Chip, 15k Ω 1/16W | |
| R961 | ERJ6GEYJ681 | Chip, 680 Ω 1/10W | |
| R962 | ERJ6GEYJ472 | Chip, 4.7k Ω 1/10W | |
| R963 | ERJ6GEYJ472 | Chip, 4.7k Ω 1/10W | |
| R969 | ERJ3GEYJ473V | Chip, 47k 1/16W | |
| R970 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| R971 | ERJ3GEYJ103V | Chip, 10k 1/16W | |
| | | | |
| | | | |
| CONNECTORs | | | |
| CN901 | K1NZ16D00001 | Connector, 16P | |
| CN902 | K1MN30BA0242 | Connector, 30P | |
| | | | |
| | | | |
| COIL | | | |
| L907 | G1C101M00014 | Coil | |
| | | | |
| | | | |
| SWITCHes | | | |
| SW901 | K9AA024A0013 | Switch | |
| SW902 | K0H1BA000445 | Switch | |
| SW903 | K0H1BA000445 | Switch | |
| SW905 | K0H1BA000445 | Switch | |
| SW906 | K0H1BA000445 | Switch | |
| SW907 | K0H1BA000445 | Switch | |
| SW908 | K0H1BA000445 | Switch | |
| SW909 | K0H1BA000445 | Switch | |
| SW910 | K0H1BA000445 | Switch | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| SW911 | K0H1BA000445 | Switch | |
| SW912 | K0H1BA000445 | Switch | |
| SW913 | K0H1BA000445 | Switch | |
| SW914 | K0H1BA000445 | Switch | |
| | | | |
| | | | |
| CRYSTALs | | | |
| XL900 | H0J125500008 | Crystal Oscillator | |
| | | | |
| | | | |
| LCD | | | |
| LCD901 | L5F000000009 | LCD | |
| | | | |
| NETWORK RESISTORs | | | |
| RA901 | D1H822140004 | Network Resistor | |
| RA902 | D1H822140004 | Network Resistor | |
| RA903 | D1H822140004 | Network Resistor | |
| RA904 | D1H822140004 | Network Resistor | |
| RA905 | D1H822140004 | Network Resistor | |
| RA907 | D1H822140004 | Network Resistor | |
| RA908 | D1H822140004 | Network Resistor | |
| RA909 | D1H822140004 | Network Resistor | |
| RA910 | D1H822140004 | Network Resistor | |
| RA911 | D1H822140004 | Network Resistor | |
| | | | |
| | | | |
| THERMISTOR | | | |
| TH900 | D4CC14730002 | Thermistor | |
| | | | |
| | | | |
| TRANSFORMER | | | |
| L908 | G5C1AAA00001 | Transformer | |
| | | | |
| | | | |
| DISPLAY TUBE | | | |
| CFL901 | A2CA00000065 | Display Tube | |
| | | | |
| | | | |
| | | | |
| ACCESSORIES | | | |
| PRINTINGS | | | |
| | YEFM285868 | Operating Instructions | |
| | YEFM294215 | Installation Instructions | |
| | | | |
| | | | |
| INSTALLATION PARTs | | | |
| | YEFA131646 | Removable Face Plate Case | |
| | EUR7641010 | Remote Control Unit / (Includes a battery:CR2025) | |
| | CR2025/1F | Lithium Battery | |
| | YEP0FZ5701 | Installation Kit (Lock Cancel Plate, Bolt, Screw, Nut) | |
| | YEFC05606 | Trim Plate | |
| | YEFX0217222 | Mounting Collar | |
| | YEAJ02871 | Power Connector | |
| | YEFG04019 | Rear Support Strap | |
| | | | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Mechanical Parts | | | |
| MISCELLANEOUS | | | |
| AP2 | YGAP2985 | Pc Board Only | |
| AT1 | K4ZZ01000048 | Terminal | |
| AT2 | K4ZZ01000048 | Terminal | |
| AT3 | K4ZZ01000048 | Terminal | |
| CN1 | K1NZ16H00002 | Connector, 16P | |
| HP1 | K4ZZ01000235 | Terminal | |
| HP2 | K4ZZ01000235 | Terminal | |
| ANT51 | YEAA10090 | Receptacle | |
| 1 | YEFA032032 | Upper Cover | |
| 2 | YEP0FX13657 | Removable Face Plate Unit | RTL |
| 3 | YEFA132026 | Back Cover, Detachable | |
| 4 | YEFV021965 | Magnetic Shield | |
| 5 | YGP0PT9571Z9 | Display PCB w/Component | RTL |
| 6 | YEFK061261 | Holder | |
| 7 | YEFK061262 | Holder | |
| 8 | YEFX0013085 | Transparent Plate | |
| 9 | YEFX9995444 | Shad | |
| 11 | YEFV023430 | Color Screen | |
| 12 | YEFV023428 | Optical Shade, LCD901 | |
| 13 | YEFX0013083 | Transparent Plate, VOL | |
| 14 | YEFX0217216 | Case, LCD901 | |
| 15 | YEFX9995490 | Spacer | |
| 17 | CHFC026D018 | Front Face Ass'y | |
| 18 | YEFE07552 | Knob, VOLUME/PUSE SEL | |
| 19 | YEFX0052572 | Moving Plate | |
| 20 | YEFE139458 | Button, SRC/PWR | |
| 21 | YEFE139463 | Button, SQ | |
| 22 | YEFE139466 | Button, DEM | |
| 23 | YEFE139461 | Button, MUTE/SBC.SW | |
| 24 | YEFE139469 | Button, MENU/DIM | |
| 25 | YEFE139479 | Button, TILT/OPEN (eject) | |
| 26 | YEFX0053029 | Spring | |
| 27 | YEFE139485 | Button, Relase | |
| 28 | YEFE139472 | Button, DISP | |
| 29 | YEFE139476 | Button, Pause/Play/BAND/SET/APM | |
| 30 | YEFE139482 | Button, P.SET/DISC/TUNE/TRACK | |
| 31 | YEFE139568 | Button, (FOLDER) | |
| 32 | YEFV023429 | Optical Shade | |
| 34 | YEFM031552 | Laser Seal | |
| 35 | YEFR041000 | Cap | |
| 36 | YEFA08710 | Rear Plate | |
| 37 | YEFX0071005 | Clamper, CN251, CN253, CN351 | |
| 41 | YGP0PT3042S9 | Main/Connector w/Component | RTL |
| 42 | YEFF011230 | Heat Sink | |
| 43 | YEFX0217229 | Bracket, IC701 | |
| 44 | YEFX0213945B | Bracket, IC271 | |
| 45 | YEFX0216269 | Bracket, IC730 | |
| 47 | YEP9FX352A | Drive Mechanism Ass'y | |
| 48 | YEFA131827 | Flexible PCB Case | |
| 50 | YEFA07669 | Front Plate | |
| 51 | YEFC028113 | Rear Cover, Escutcheon | |
| 52 | YEFS02431 | Pad, Escutcheon | |
| 53 | YEFX0012368 | Transparent Plate, Escutheon | |
| 54 | YEFS012112 | Pad, Escutcheon | |
| 55 | YEFC028112 | Front Cover, Escutcheon | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 57 | YEFX0217230 | Bracket, CN302 | |
| | | | |
| 72 | YEJS06404A | Binding Screw | |
| 73 | YEJT03333A | Tapping Screw | |
| 74 | XQN2+BG8FJK | Tapping Screw, 2*8 | |
| 75 | XSB3+14FJ | Binding Screw, 3*14 | |
| 76 | XSB3+6FJ | Binding Screw, 3*6 | |
| 78 | XQN2+C4FJK | Binding Screw, 2*4 | |
| 80 | XTB3+6FFJ | Screw, 3x6 | |
| 81 | XTB26+6FFJ | Tapping Screw, 2.6*6 | |
| 84 | XTB26+8GFJ | Tapping Screw | |
| | | | |

# 13. EXPLODED VIEW (Unit)



# 14. CD PLAYER PARTS LIST

**Notes :**

**1. Be sure to make your orders of replacement parts according to this list.**

**2. Important safety notice: Components, identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**

3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

    **- Order intake period is basically six months after the first shipment.**

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| [3032-14-14] CD Servo Block | | | |
| IC's and TRANSISTORs | | | |
| IC101 | YESAM272 | IC | |
| IC201 | YESAM279 | IC | |
| IC401 | YESAM275 | IC | |
| IC402 | YESAM280 | IC | |
| IC403 | YESAM171 | IC | |
| IC404 | YESAM178 | IC | |
| IC405 | YESAM270 | IC | |
| Q101 | YESAN086 | Transistor | |
| Q201 | YESAN086 | Transistor | |
| | | | |
| | | | |
| CAPACITORs | | | |
| C101 | YESCC187 | Ceramic, 0.1 μ F 25WV | |
| C102 | YESCC384 | Ceramic, 0.033 μ F 50WV | |
| C103 | YESCC206 | Ceramic, 0.047 μ F 25WV | |
| C104 | YESCC207 | Ceramic, 0.001 μ F 50WV | |
| C106 | YESCC204 | Ceramic, 330pF 50WV | |
| C107 | YESCC187 | Ceramic, 0.1 μ F 25WV | |
| C108 | YESCC206 | Ceramic, 0.047 μ F 25WV | |
| C110 | YESCC383 | Ceramic, 0.33 μ F 10WV | |
| C112 | YESCC209 | Ceramic, 0.0033 μ F 50WV | |
| C113 | YESCC187 | Ceramic, 0.1 μ F 25WV | |
| C114 | YESCC298 | Ceramic, 0.015 μ F 50WV | |
| C115 | YESCC187 | Ceramic, 0.1 μ F 25WV | |
| C116 | YESCC382 | Ceramic, 680pF 50WV | |
| C117 | YESCC207 | Ceramic, 0.001 μ F 50WV | |
| C118 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C119 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C120 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C121 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C122 | F1H1H101A231 | Ceramic, 100pF 50WV | |
| C124 | YESCC187 | Ceramic, 0.1 F 25WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C125 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C151 | YESCC388 | Electrolytic, 100 μF 16WV | |
| C154 | YESCC390 | Electrolytic, 220 μF 10WV | |
| C204 | YESCC209 | Ceramic, 0.0033 μF 50WV | |
| C205 | YESCC184 | Ceramic, 0.0047 μF 50WV | |
| C206 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C207 | YESCC202 | Ceramic, 22pF 50WV | |
| C210 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C251 | YESCC390 | Electrolytic, 220 μF 10WV | |
| C252 | YESCC390 | Electrolytic, 220 μF 10WV | |
| C253 | YESCC389 | Electrolytic, 470 μF 6.3WV | |
| C301 | YESCC203 | Ceramic, 220pF 50WV | |
| C302 | YESCC203 | Ceramic, 220pF 50WV | |
| C303 | YESCC185 | Ceramic, 0.01 μF 50WV | |
| C304 | YESCC185 | Ceramic, 0.01 μF 50WV | |
| C305 | YESCC382 | Ceramic, 680pF 50WV | |
| C306 | YESCC382 | Ceramic, 680pF 50WV | |
| C307 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C351 | YESCC381 | Ceramic, 10 μF 6.3WV | |
| C352 | YESCC381 | Ceramic, 10 μF 6.3WV | |
| C353 | YESCC391 | Electrolytic, 100 μF 16WV | |
| C354 | YESCC390 | Electrolytic, 220 μF 10WV | |
| C401 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C402 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C403 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C404 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C405 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C406 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C407 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C408 | YESCC210 | Ceramic, 1 F 16WV | |
| C409 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C410 | YESCC210 | Ceramic, 1 F 16WV | |
| C411 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C412 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C413 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C414 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C415 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C416 | YESCC210 | Ceramic, 1 F 16WV | |
| C417 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C418 | YESCC210 | Ceramic, 1 F 16WV | |
| C419 | YESCC187 | Ceramic, 0.1 F 25WV | |
| C421 | YESCC210 | Ceramic, 1 F 16WV | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C422 | YESCC187 | Ceramic, 0.1 μF 25WV | |
| C451 | YESCC389 | Electrolytic, 470 μF 6.3WV | |
| C452 | YESCC389 | Electrolytic, 470 μF 6.3WV | |
| C454 | YESCC388 | Electrolytic, 100 μF 16WV | |
| | | | |
| | | | |
| RESISTORs | | | |
| J101-105 | ERJ8GX0R00V | Chip, 0 Ω 1/4W | |
| L102 | YESRG241 | Chip, 0 Ω | |
| L201 | YESRG241 | Chip, 0 Ω | |
| L304 | YESRG241 | Chip, 0 Ω | |
| R101 | YESRG234 | Chip, 4.7 Ω 1/10W | |
| R102 | ERJ3GEY0R00V | Chip, 0 Ω 1/4W | |
| R103 | YESRG227 | Chip, 2.2k Ω 1/10W | |
| R104 | YESRG227 | Chip, 2.2k Ω 1/10W | |
| R105 | ERJ3GEY0R00V | Chip, 0 Ω 1/4W | |
| R106 | YESRG230 | Chip, 3.3k Ω 1/10W | |
| R107 | YESRG230 | Chip, 3.3k Ω 1/10W | |
| R108 | ERJ3GEY0R00V | Chip, 0 Ω 1/4W | |
| R109 | YESRG238 | Chip, 56k Ω 1/10W | |
| R110 | YESRG228 | Chip, 22k Ω 1/10W | |
| R114 | YESRG240 | Chip, 82k Ω 1/10W | |
| R116 | YESRG239 | Chip, 820 Ω 1/10W | |
| R117 | ERJ3GEY0R00V | Chip, 0 Ω 1/4W | |
| R118 | YESRG223 | Chip, 10k Ω 1/10W | |
| R119 | YESRG233 | Chip, 47k Ω 1/10W | |
| R120 | ERJ3GEY0R00V | Chip, 0 Ω 1/4W | |
| R121 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R122 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R123 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R124 | YESRG224 | Chip, 100k 1/10W | |
| R125 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R126 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R127 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R128 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R201 | YESRG243 | Chip, 6.8k 1/10W | |
| R202 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R204 | YESRG222 | Chip, 1k 1/10W | |
| R205 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R206 | YESRG242 | Chip, 15k 1/10W | |
| R207 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R208 | YESRG228 | Chip, 22k 1/10W | |
| R209 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R211 | YESRG233 | Chip, 47k 1/10W | |
| R215 | YESRG237 | Chip, 5.6k 1/10W | |
| R216 | YESRG237 | Chip, 5.6k 1/10W | |
| R217 | YESRG222 | Chip, 1k 1/10W | |

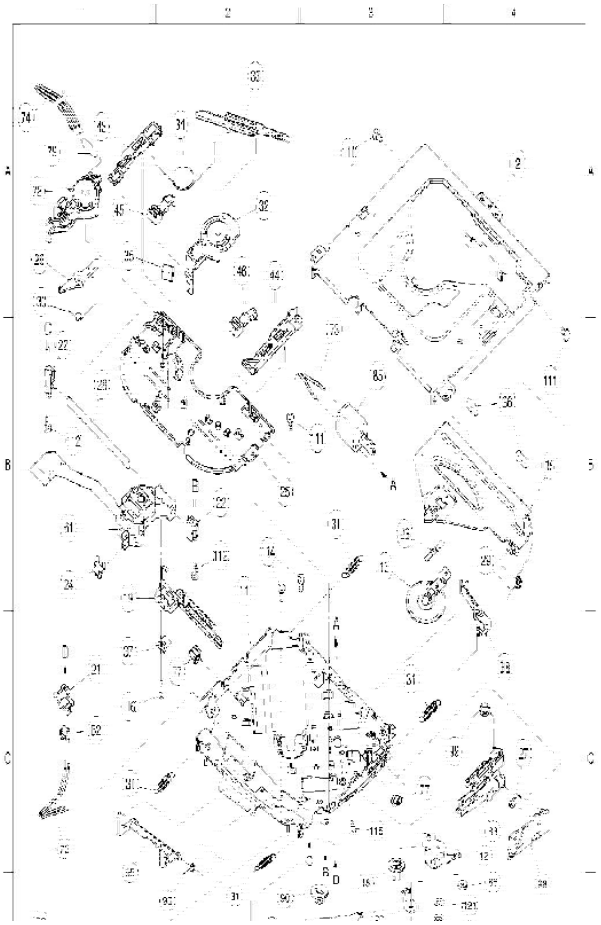
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R218 | YESRG237 | Chip, 5.6k Ω 1/10W | |
| R301 | YESRG229 | Chip, 330 Ω 1/10W | |
| R302 | YESRG229 | Chip, 330 Ω 1/10W | |
| R305 | YESRG222 | Chip, 1k Ω 1/10W | |
| R306 | YESRG222 | Chip, 1k Ω 1/10W | |
| R307 | YESRG233 | Chip, 47k Ω 1/10W | |
| R308 | YESRG233 | Chip, 47k Ω 1/10W | |
| R401 | YESRG223 | Chip, 10k Ω 1/10W | |
| R402 | YESRG223 | Chip, 10k Ω 1/10W | |
| R403 | YESRG223 | Chip, 10k Ω 1/10W | |
| R404 | YESRG233 | Chip, 47k Ω 1/10W | |
| R405 | YESRG232 | Chip, 4.7k Ω 1/10W | |
| R406 | YESRG226 | Chip, 220 Ω 1/10W | |
| R407 | YESRG230 | Chip, 3.3k Ω 1/10W | |
| R408 | YESRG227 | Chip, 2.2k Ω 1/10W | |
| R409 | YESRG221 | Chip, 100 Ω 1/10W | |
| R410 | YESRG223 | Chip, 10k Ω 1/10W | |
| R411 | YESRG226 | Chip, 220 Ω 1/10W | |
| R412 | YESRG230 | Chip, 3.3k Ω 1/10W | |
| R413 | YESRG232 | Chip, 4.7k Ω 1/10W | |
| R414 | YESRG232 | Chip, 4.7k Ω 1/10W | |
| R415 | YESRG232 | Chip, 4.7k Ω 1/10W | |
| R416 | YESRG232 | Chip, 4.7k Ω 1/10W | |
| R417 | YESRG223 | Chip, 10k Ω 1/10W | |
| R419 | YESRG226 | Chip, 220 Ω 1/10W | |
| R420 | YESRG236 | Chip, 560 Ω 1/10W | |
| R421 | YESRG227 | Chip, 2.2k Ω 1/10W | |
| R422 | YESRG224 | Chip, 100k 1/10W | |
| R423 | YESRG235 | Chip, 56 1/10W | |
| R424 | YESRG235 | Chip, 56 1/10W | |
| R425 | YESRG223 | Chip, 10k 1/10W | |
| R426 | YESRG223 | Chip, 10k 1/10W | |
| R427 | YESRG222 | Chip, 1k 1/10W | |
| R428 | YESRG222 | Chip, 1k 1/10W | |
| R429 | YESRG222 | Chip, 1k 1/10W | |
| R430 | YESRG222 | Chip, 1k 1/10W | |
| R431 | YESRG222 | Chip, 1k 1/10W | |
| R432 | YESRG222 | Chip, 1k 1/10W | |
| R433 | YESRG227 | Chip, 2.2k 1/10W | |
| R435 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R436 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R437 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R438 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R439 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R440 | ERJ3GEY0R00V | Chip, 0 1/4W | |
| R441 | YESRG221 | Chip, 100 1/10W | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| CONNECTORs | | | |
| CN101 | YESAE345 | Connector 18P | |
| CN102 | YESAE350 | Connector 16P | |
| | | | |
| | | | |
| COILs | | | |
| L101 | YESLQ011 | Inductor | |
| L301 | YESLQ036 | Inductor | |
| L302 | YESLQ036 | Inductor | |
| L401 | YESLQ014 | Inductor | |
| L402 | YESLQ014 | Inductor | |
| L403 | YESLQ014 | Inductor | |
| L404 | YESLQ033 | Inductor | |
| L405 | YESLQ033 | Inductor | |
| L406 | YESLQ033 | Inductor | |
| | | | |
| | | | |
| CRYSTAL | | | |
| X401 | YESXL018 | Crystal | |
| | | | |
| | | | |
| RESISTOR NETWWORKs | | | |
| RA401 | YESXA003 | Resistor Network, 56 Ω * 4 | |
| RA402 | YESXA003 | Resistor Network, 56 Ω * 4 | |
| RA403 | YESXA002 | Resistor Network, 100 Ω * 4 | |
| RA404 | YESXA002 | Resistor Network, 100 Ω * 4 | |
| RA405-412 | YESXA003 | Resistor Network, 56 Ω * 4 | |
| | | | |
| | | | |
| | | | |
| MECHANICAL PARTS | | | |
| MISCELLANEOUS | | | |
| 1 | YESFX046136 | Frame | |
| 2 | YESFX046137 | Top Cover | |
| 3 | YERFS04003 | Damper F | |
| 4 | YERFS04004 | Damper R | |
| 11 | YESFX046138 | Chassis Rivet Ass'y | |
| 12 | YERFX046001 | Change Plate Rivet Ass'y | |
| 13 | YERFX007001 | Clamper Ass'y | |
| 14 | YESAK01041 | Spindle Motor Ass'y | |
| 15 | YERFX046002 | Clamper Arm | |
| 16 | YERFX005001 | Changer Gear Spring | |
| 17 | YERFX03001 | Changer Gear 2 | |
| 18 | YERFX03002 | Feed Gear | |
| 19 | YERFX03003 | Feed Rack M | |
| 20 | YERFX046003 | Changer Lock Lever | |
| 21 | YERFW04001 | Feed Switch Holder | |
| 22 | YERFW04002 | PU Shaft Holder | |
| 23 | YERFX005002 | Clamper Sub Spring | |
| 24 | YERFW04003 | FD Sub Holder | |
| 25 | YESFX046139 | Top Plate | |
| 26 | YERFX046004 | Select Lock Arm | |
| 27 | YERFX046006 | Slide Hook | |
| 28 | YERFW01001 | PU Shaft | |
| 29 | YERFX005003 | Clamper Arm Spring | |

| | | | |
|---|---|---|---|
| 25 | PERF-XXXXXX | Stamp: Arm Spring | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 30 | YERFX005004 | Select Lock Arm Spring | |
| 31 | YERFX005013 | Suspension Spring | |
| 32 | YESFX046140 | Select Arm R | |
| 33 | YERFX03004 | Link Plate | |
| 34 | YESFX005137 | Link Plate Spring | |
| 35 | YERFS01001 | Cushion F | |
| 36 | YERFS01002 | Cushion R | |
| 37 | YERFX005014 | Feed Spring Plate | |
| 38 | YERFX046005 | Trigger Arm | |
| 43 | YERFX046008 | Select Plate L | |
| 44 | YERFX046009 | Select Plate R | |
| 45 | YERFX046010 | Select Piece L | |
| 46 | YERFX046011 | Select Piece R | |
| 61 | YESSZCDM023 | Optical Pick-up Ass'y | |
| 62 | YERAS0001 | Detect Switch | |
| 71 | YESAP393 | Servo PCB Ass'y | RTL |
| 72 | YERAS0002 | Mode Switch | |
| 73 | YESAJ07014 | LD Wire | |
| 74 | YESAJ07015 | SW Wire | |
| 75 | YESAJ07016 | SP Wire | |
| 77 | YERFX999001 | Wire Clamper | |
| 78 | YESFX024021 | Wire Tube SPM | |
| 79 | YESFX024022 | Wire Tube MSW | |
| 81 | YERFX03005 | Roller Shaft Ass'y | |
| 82 | YERFX046012 | Loading Gear Plate Rivet Ass'y | |
| 83 | YERFX046013 | Loading Plate Ass'y | |
| 84 | YESFX046173 | Lock Arm Rivet Ass'y | |
| 85 | YESAK01042 | Loading/Feed Motor Ass'y | |
| 86 | YERFX03006 | Loading Gear 1 | |
| 87 | YERFX03007 | Loading Gear 2 | |
| 88 | YERFX03008 | Loading Gear 3 | |
| 89 | YERFX03009 | Loading Gear 4 | |
| 90 | YERFX03010 | Loading Gear 5 | |
| 91 | YERFX03011 | Loading Gear 6 | |
| 92 | YERFX03012 | Loading Gear 7 | |
| 93 | YESFW05023 | Roller Guide | |
| 94 | YERFX005007 | RIler Guide Spring | |
| 95 | YERFX046015 | Disk Stopper Arm | |
| 96 | YERFX005008 | Disk Stop Arm Spring | |
| 97 | YERFX046016 | LD Gear Bracket | |
| 98 | YESFX046174 | L Slide Plate | |
| 99 | YERFX005009 | Loading Plate Spring | |
| 100 | YESFX046150 | Loading Roller | |
| 101 | YESJS01175 | Collar Screw | |
| 111 | YERJT01001 | Tapping Screw 2*3 | |
| 112 | YERJT01002 | Tapping Screw 2*4 | |
| 113 | YEJT03117 | Tapping Bind Screw 2*4 | |
| 114 | YERJS01002 | Camera Screw 1.7*1.8 | |
| 115 | YERJS01003 | Camera Screw 2*2 | |
| 116 | YERJS01004 | Camera Tapping Screw 1.7*5 | |
| 118 | YESJS01148 | Screw 2*4 | |
| 121 | YERJW01001 | P Washer 3.5*8*0.3 | |
| 122 | YERJW01002 | HL Washer 3.5*8*0.3 | |
| 123 | YERJW01003 | Lumilar Washer 3.1*6*0.1 | |
| 124 | YEJE01028 | E Ring S 1.5 | |
| 125 | YERJW01005 | P Washer 2.1*4*0.3 | |
| | | | |

# 15. EXPLODED VIEW (CD PLAYER)



# 16. WIRING DIAGRAM

## 16.1. Main/Connector Block (Top View)

### 16.2. Main/Connector Block (Bottom View)

### 16.3. CD Servo Block (Top View)

### 16.4. CD Servo Block (Bottom View)

### 16.5. Display Block

## 17. SCHEMATIC DIAGRAM

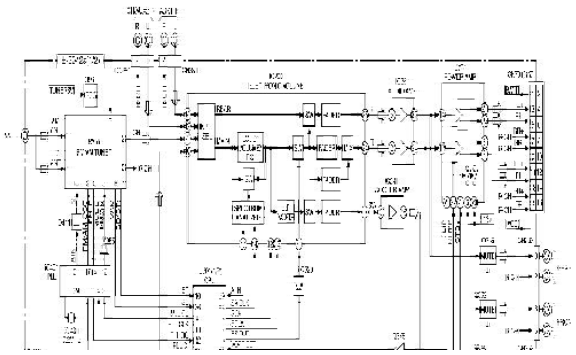
### 17.1. Main/Connector Block

### 17.2. Display Block

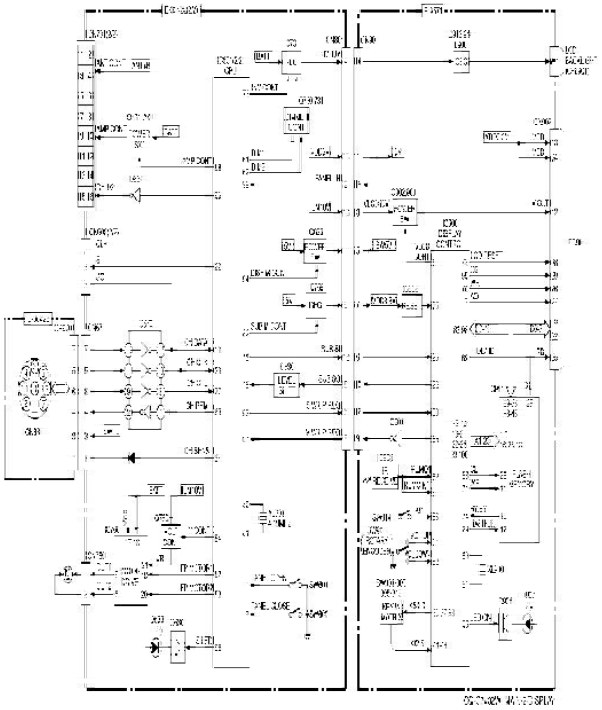
### 17.3. CD Servo Block

## 18. BLOCK DIAGRAM

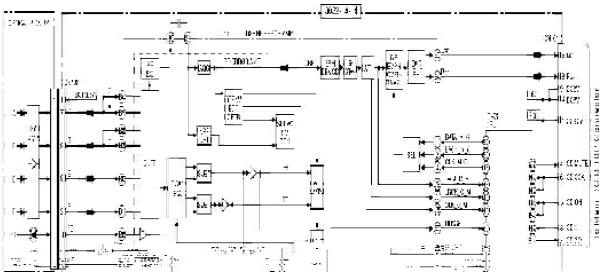
### 18.1. Main-1 Block



### 18.2. Main-2/Display Block



## 18.3. CD Servo Block



# 19. SCHEMATIC DIAGRAM for Printing with A4 Size

## 19.1. Main/Connector Block (Left Side)

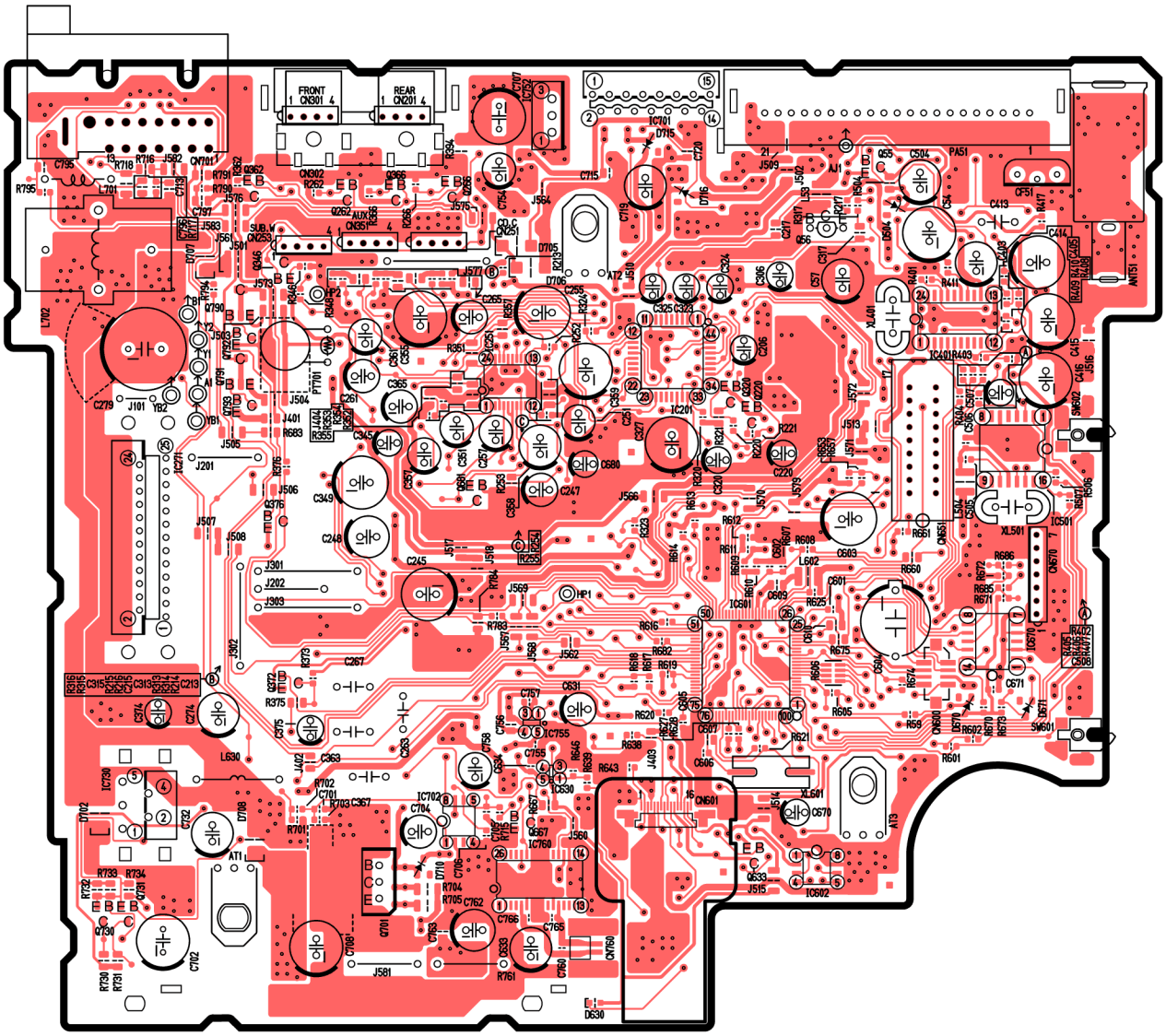
## 19.2. Main/Connector Block (Right Side)

## 19.3. Display Block (Left Side)

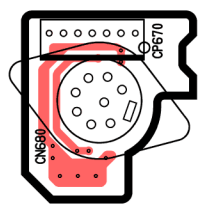
## 19.4. Display Block (Right Side)

## 19.5. CD Servo Block (Left Side)

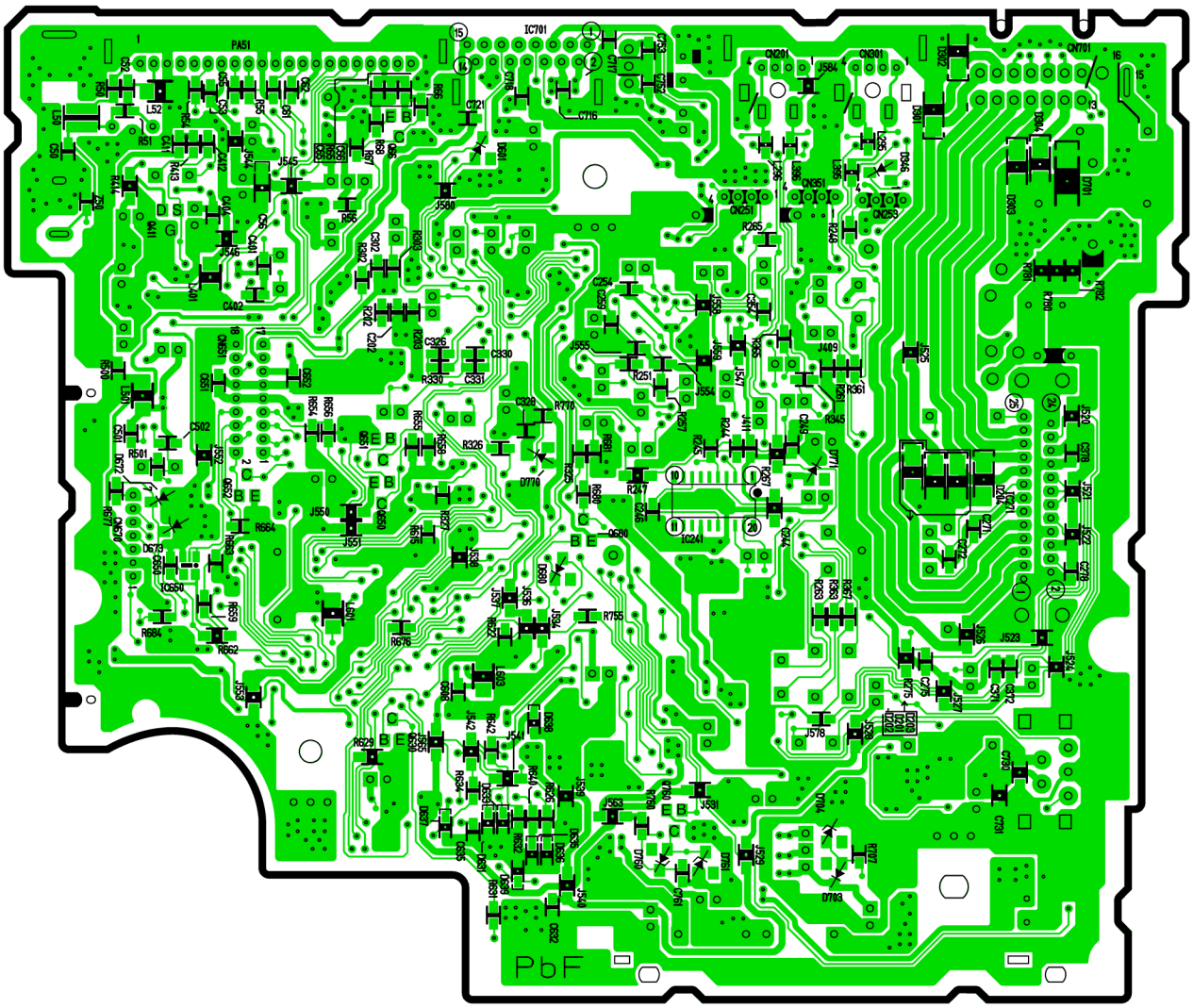
## 19.6. CD Servo Block (Right Side)



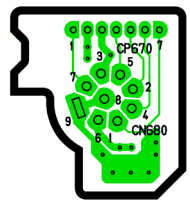

[E-3042a][Top View]



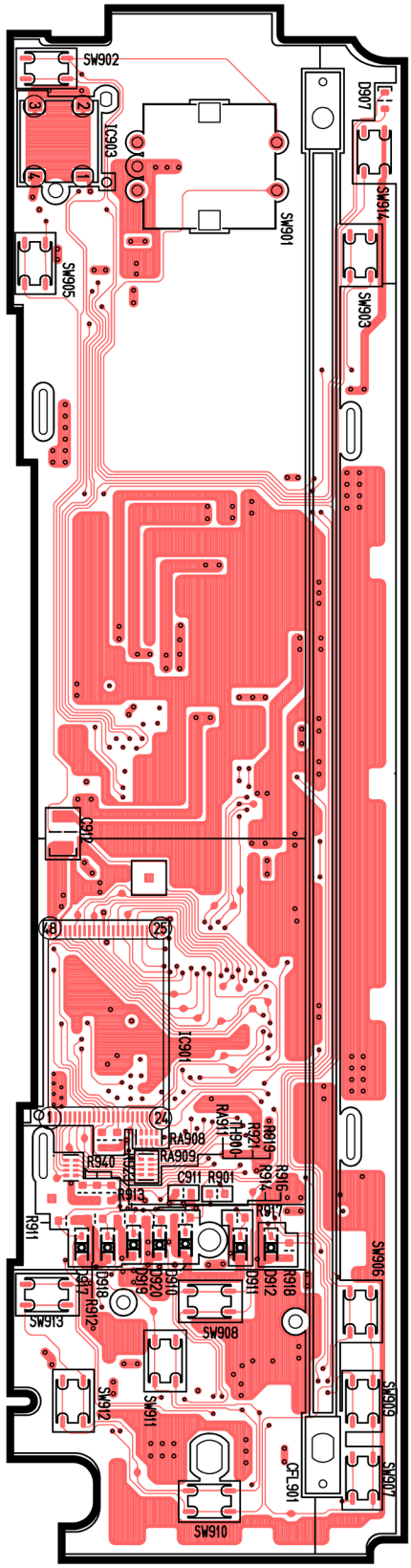

[E-3042b][Top View]



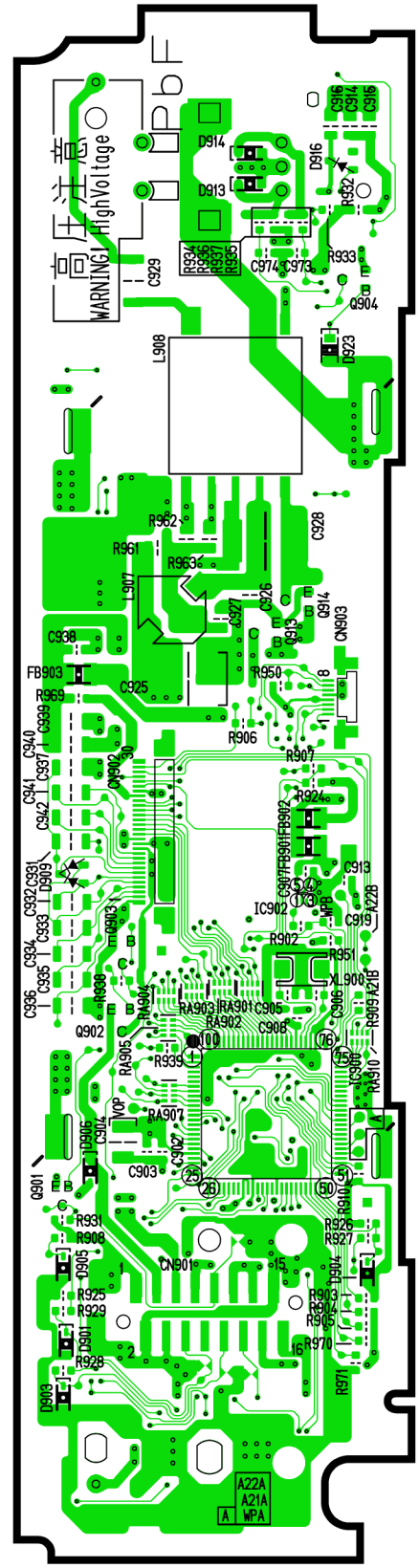

[E-3042a][Bottom View]



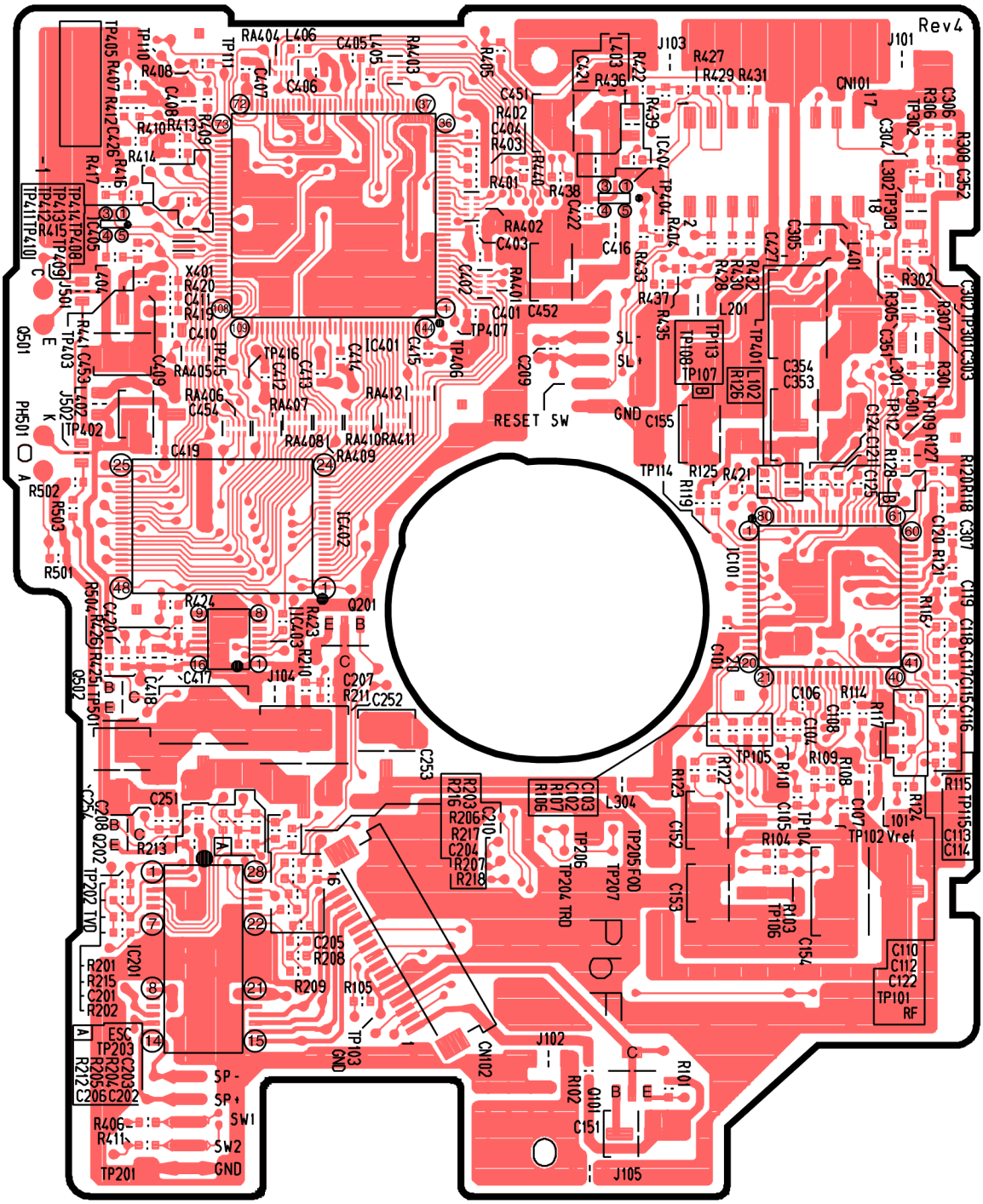

[E-3042b][Bottom View]



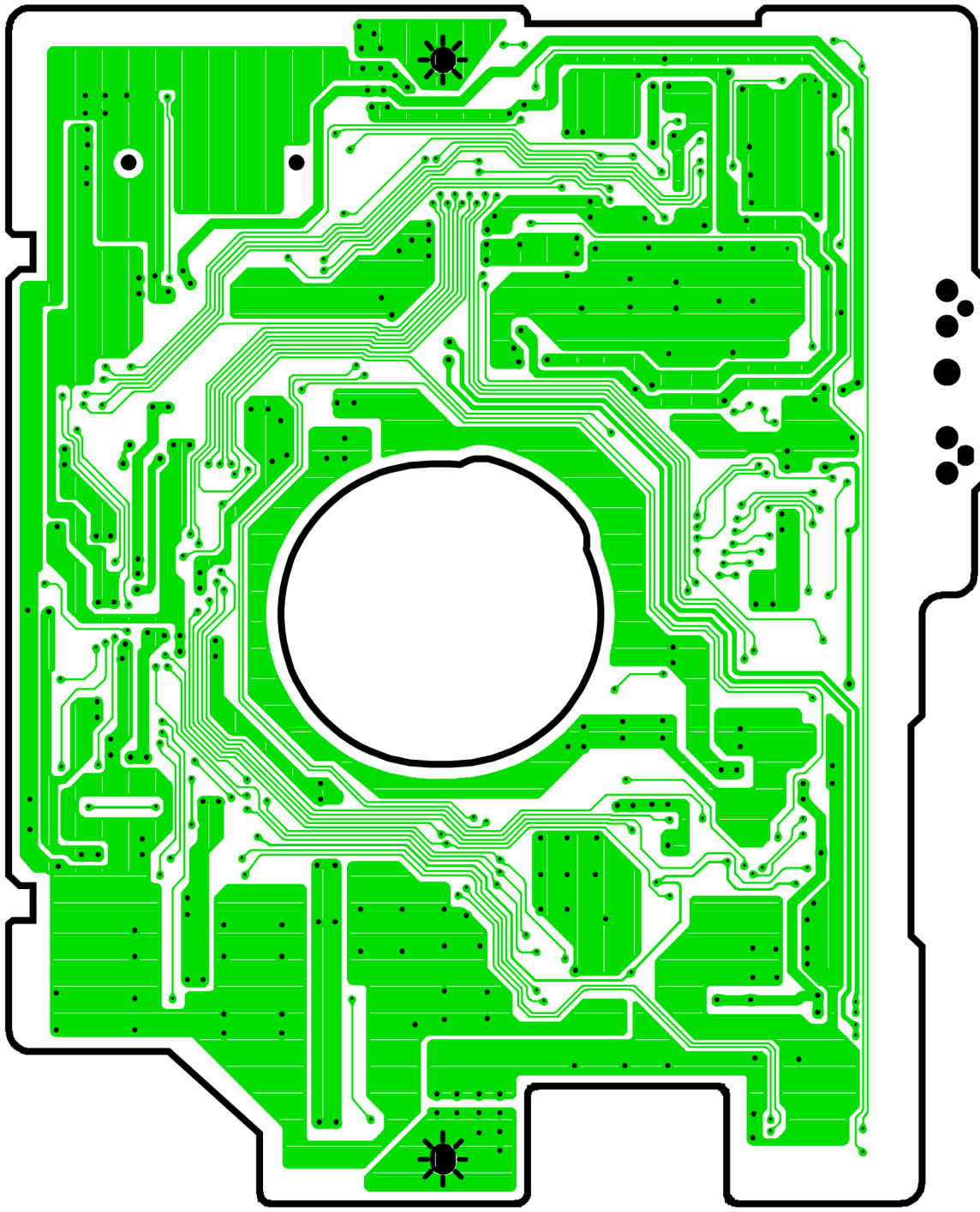
[E-9571][Top View]



[E-9571][Bottom View]




[3032-14-14] [Top View]



[3032-14-14] [Bottom View]

To Main P.C.B 18P Connector

CN101

3032-14-14

To Optical Pick Up

CN102

BA5814FM

CH1 Spindle Motor
CH2 Feed Motor
CH3 Loading Motor (Not use)
CH4 Focus Coil
CH5 Tracking Coil

IC201 YESAM279

IC101 YESAM272

IC401 YESAM275

IC402 YESAM280 FLASH

IC403 YESAM171

IC404 YESAM178

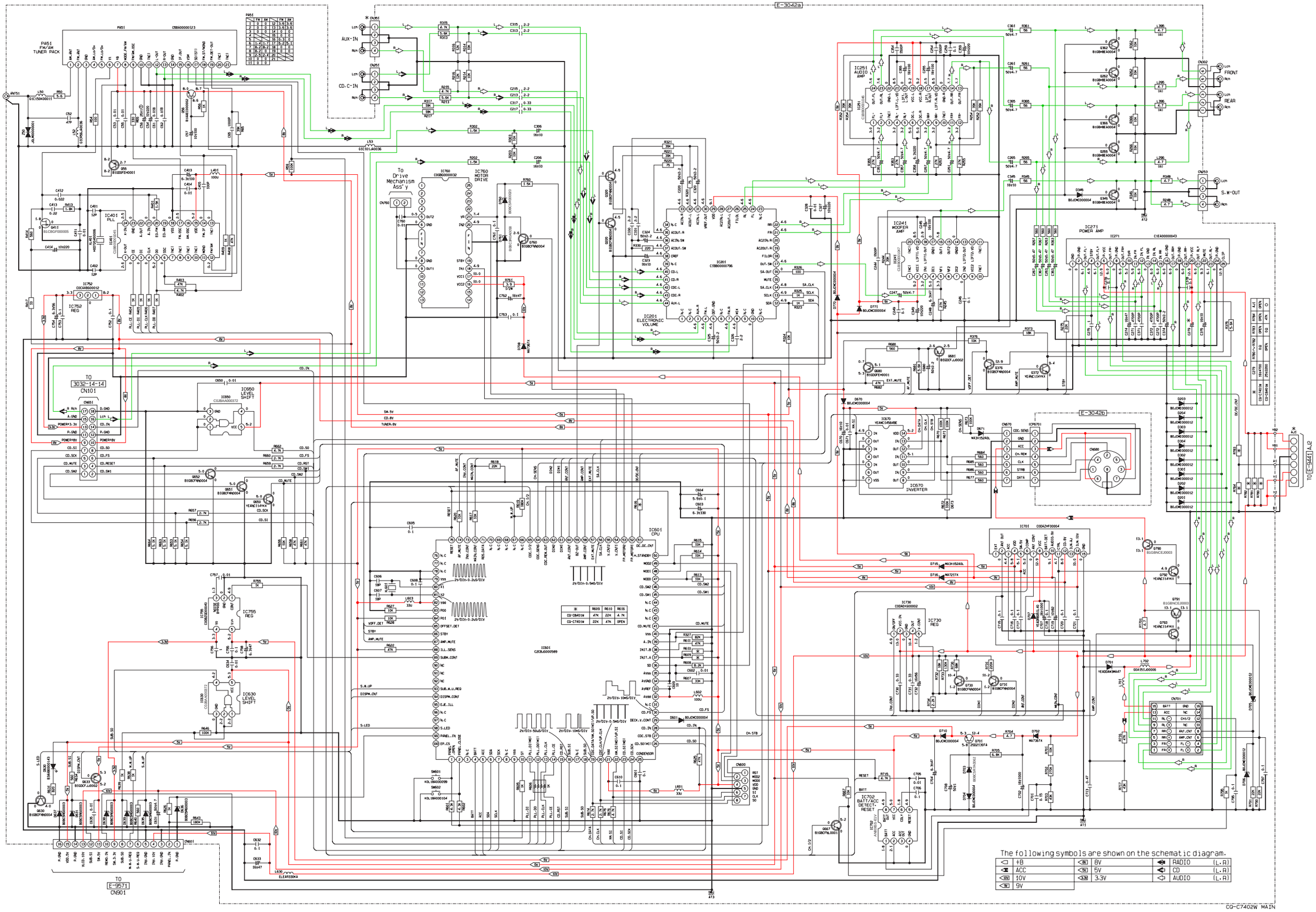
IC405 YESAM270

Q101 YESAN086

Q201 YESAN086

The following symbols are shown on the schematic diagram.

| | |
|---|---|
| 8V | 8V |
| 5V | 5V |
| 3.3V | 3.3V |
| | AUDIO (L,R) |


PA51
FM/AM TUNER PACK
CN351
AUX-IN
CN251
CD.C-IN
IC251 AUDIO AMP
IC241 WOOFER AMP
IC271 POWER AMP
FRONT
REAR
S.W-OUT
IC401 PLL
IC201 ELECTRONIC VOLUME
IC760 MOTOR DRIVE
To Drive Mechanism Ass'y
IC752 REG
IC755 REG
IC730 REG
IC601 CPU
IC630 LEVEL SHIFT
IC650 LEVEL SHIFT
IC670 INVERTER
IC702 BATT/ACC DETECT-RESET
IC701
CN101
TO 3032-14-14
TO E-9571 CN901
TO E-3442
E-3042a
E-3042b
The following symbols are shown on the schematic diagram.
+B
ACC
10V
9V
8V
5V
3.3V
RADIO (L,R)
CD (L,R)
AUDIO (L,R)
CG-C7402W MAIN

E-9571

IC903 IR RECEIVE

IC900 DISPLAY CONTROL

IC900 C2CBJH000095

IC901 FLASH MEMORY
IC901 C3FBMM000209

CN901

TO E-3042a CN601

CN902

CN903

Q902 DTA144EKAT46

Q903 B1GBCFNN0004

Q904 B1GBCFNN0004

Q913 YEANSSTA061

Q914 YEANSSTA061

L907 G1C101M00014

L908 G5C14AA00001

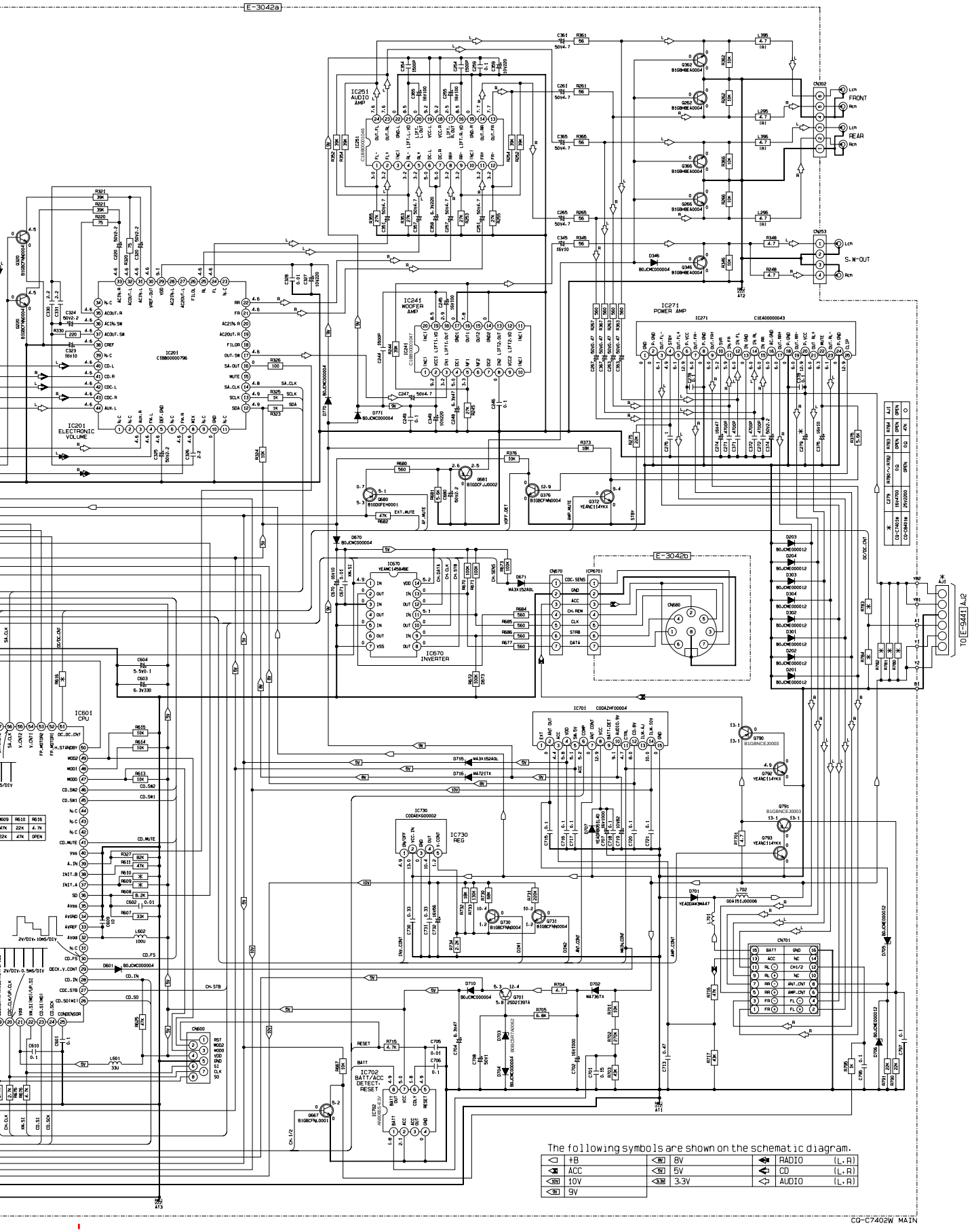
CF1 A2CA3500044

D909 MA152WKTX

CQ-C7402W DISP

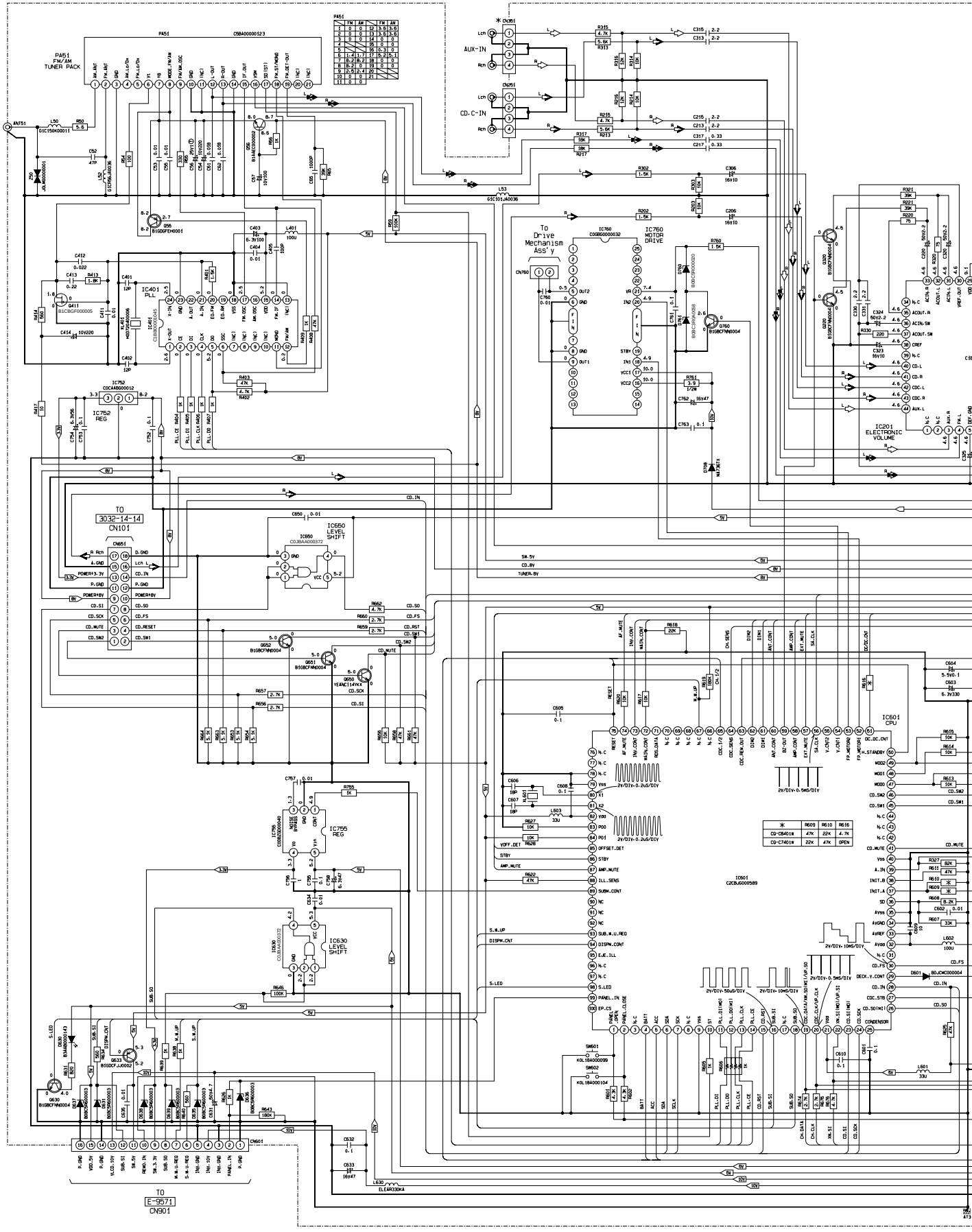
The following symbols are shown on the schematic diagram.

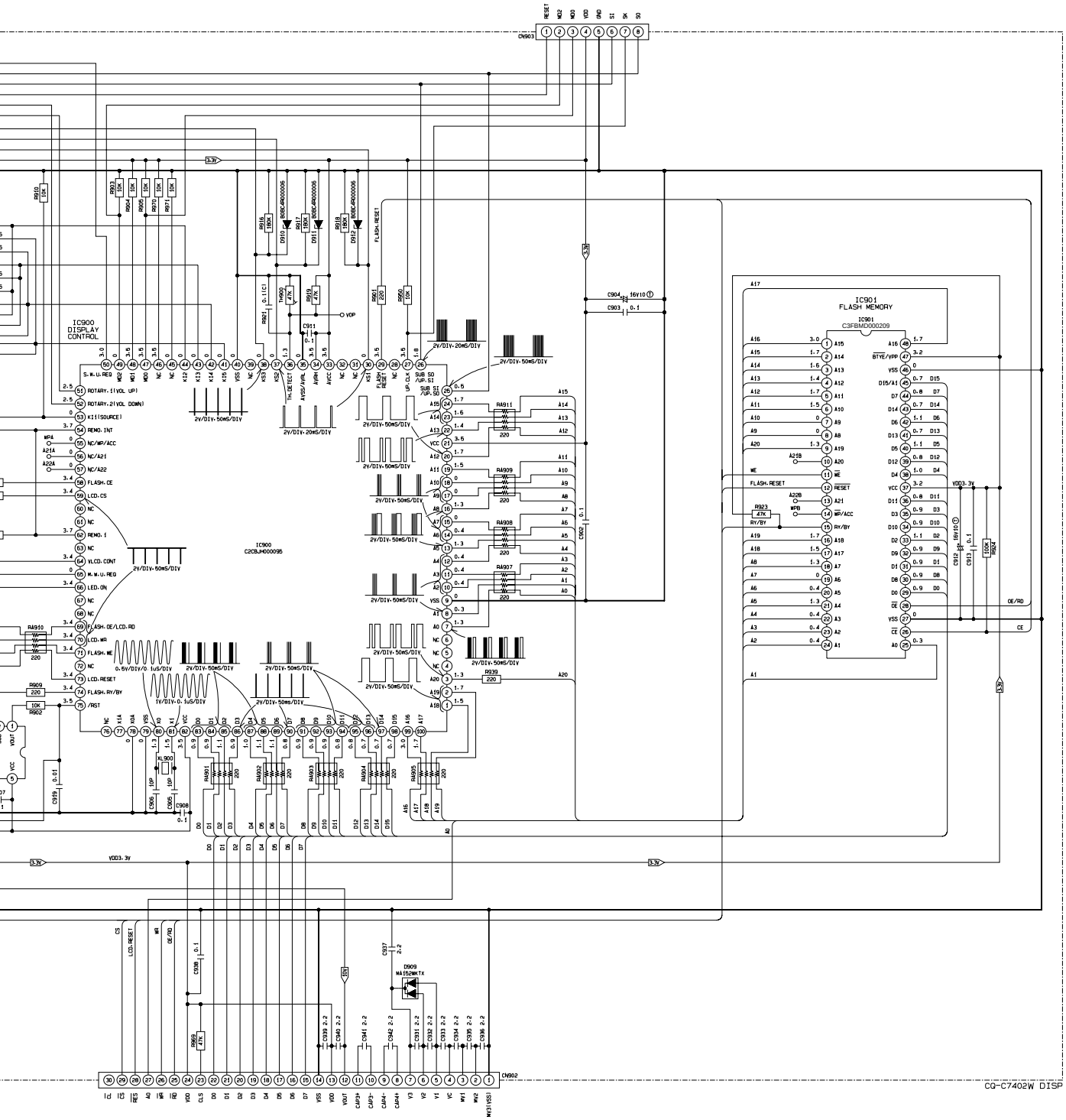
| | |
|---|---|
| 10V | 10V |
| 5V | 5V |
| 3.3V | 3.3V |


E-3042a
E-3042b
IC251 AUDIO AMP
IC241 WOOFER AMP
IC271 POWER AMP
IC201 ELECTRONIC VOLUME
IC601 CPU
IC670 INVERTER
IC730 REG
IC702 BATT/ACC DETECT-RESET
IC701
CN302
FRONT
REAR
CN303
S. W-OUT
CN670
CN680
CN600
CN701
TO E-9441 A,B
The following symbols are shown on the schematic diagram.
+B
ACC
10V
9V
8V
5V
3.3V
RADIO (L.R)
CD (L.R)
AUDIO (L.R)
CQ-C7402W MAIN

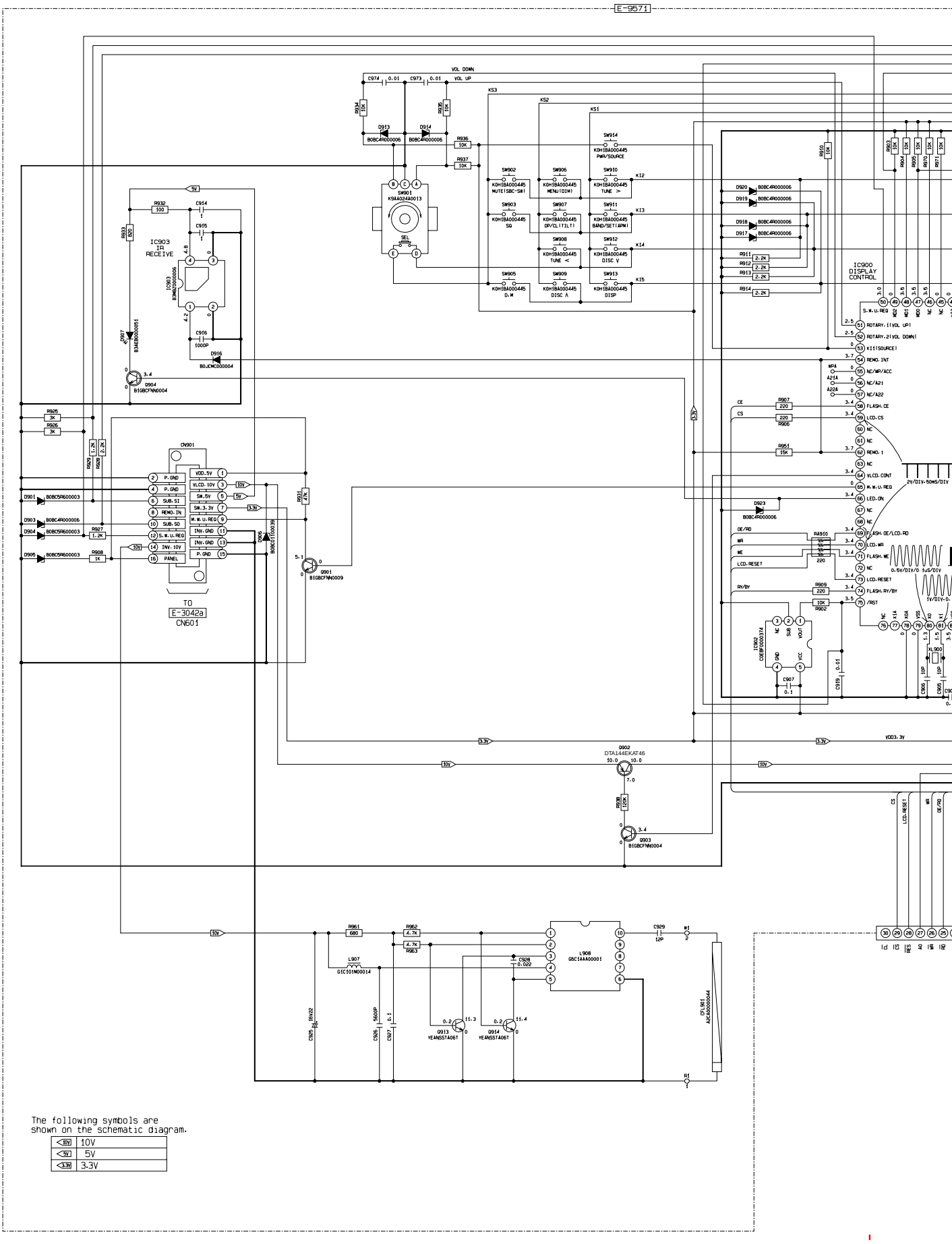
# 17 SCHEMATIC DIAGRAM

## 17.1. Main/Connector Block



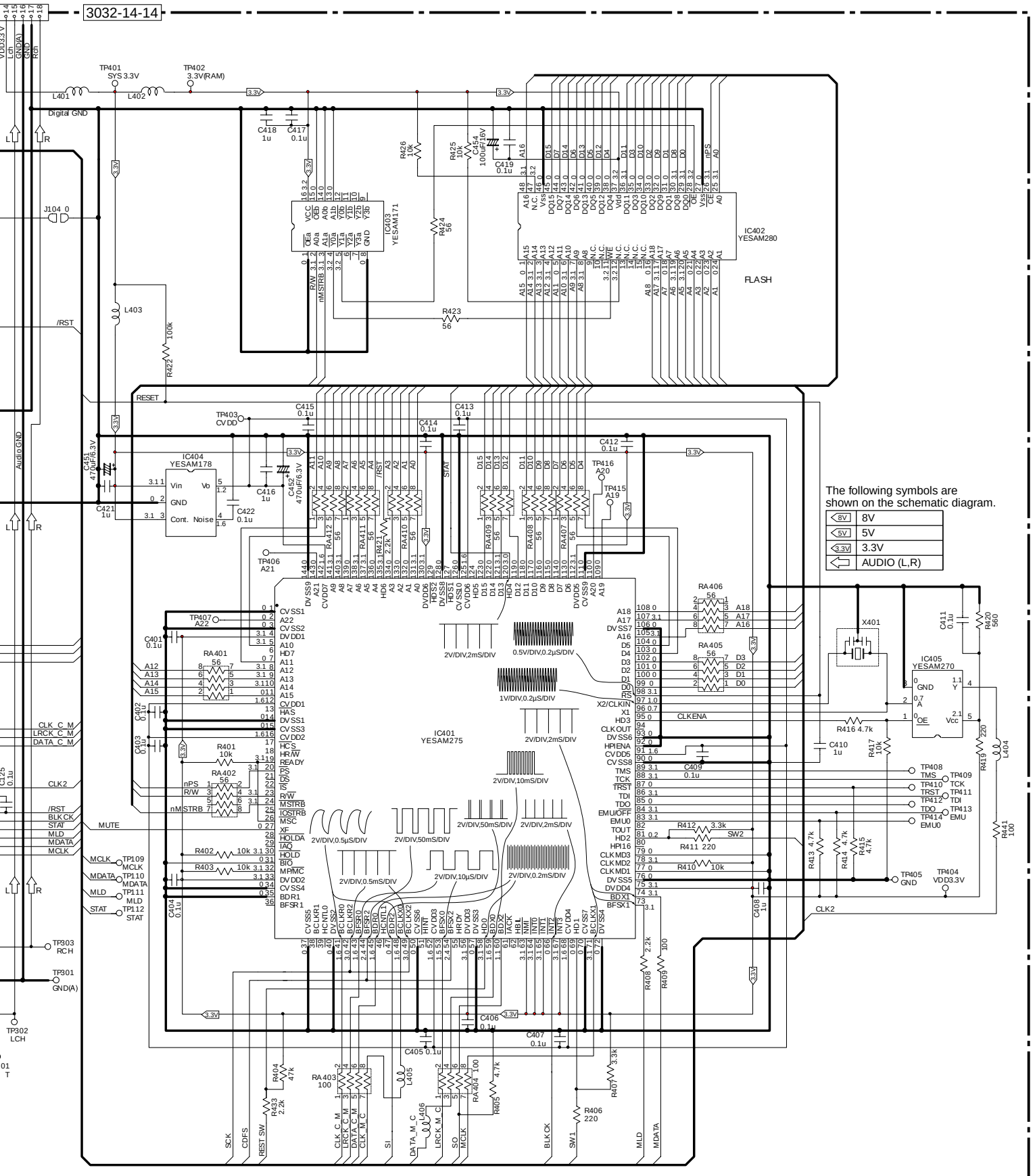

IC900
DISPLAY
CONTROL
IC900
C2CBJM000095
IC901
FLASH MEMORY
IC901
C3FBMD000209
CN903
CN902
FLASH_RESET
LCD_RESET
CQ-C7402W DISP

# 17.2. Display Block

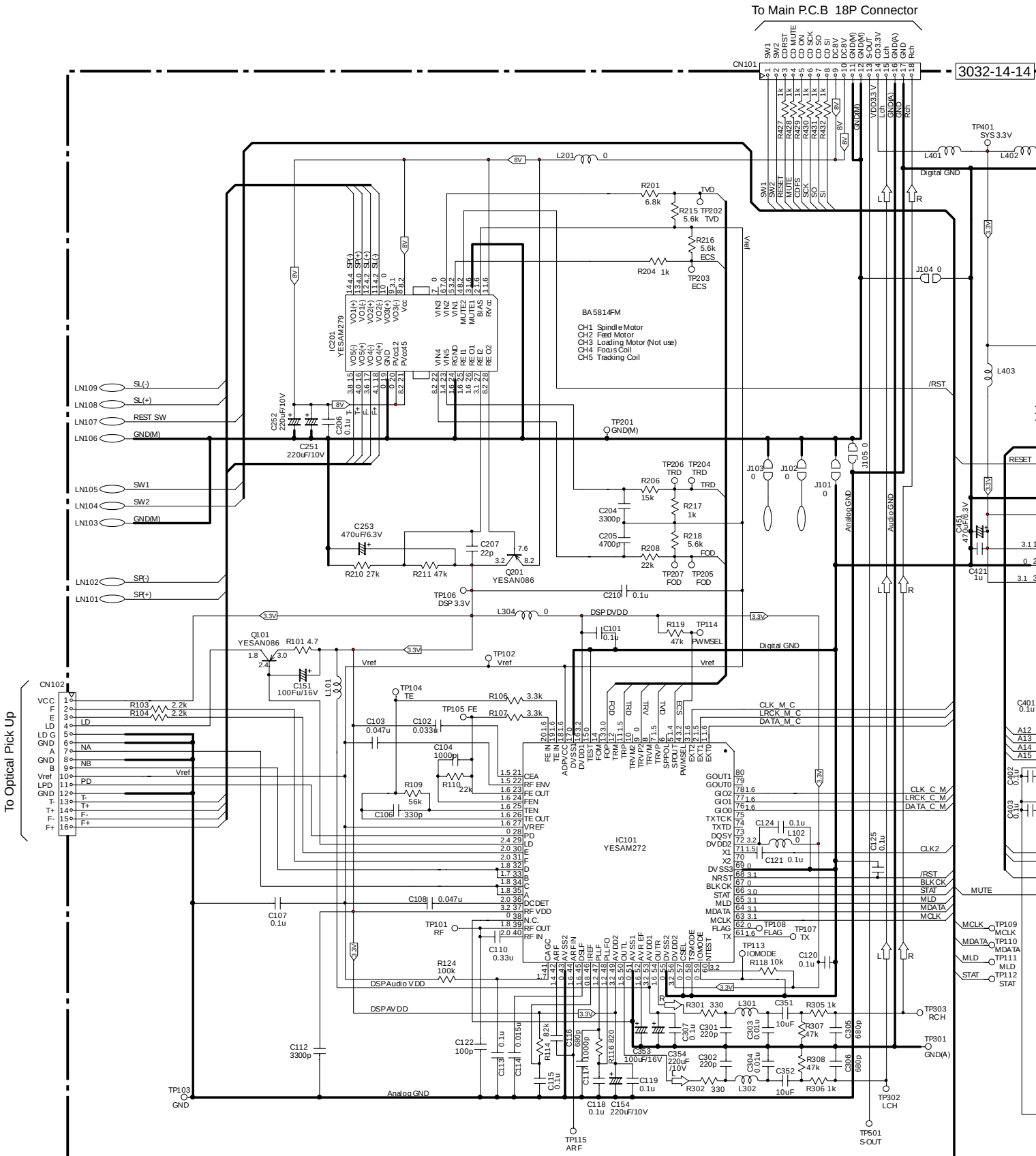


nnector

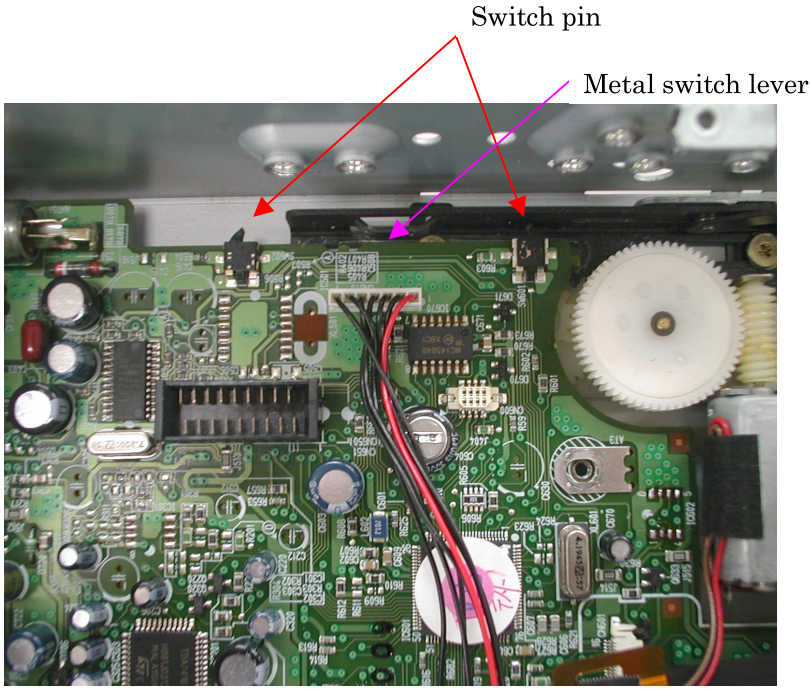
3032-14-14



# 17.3. CD Servo Block

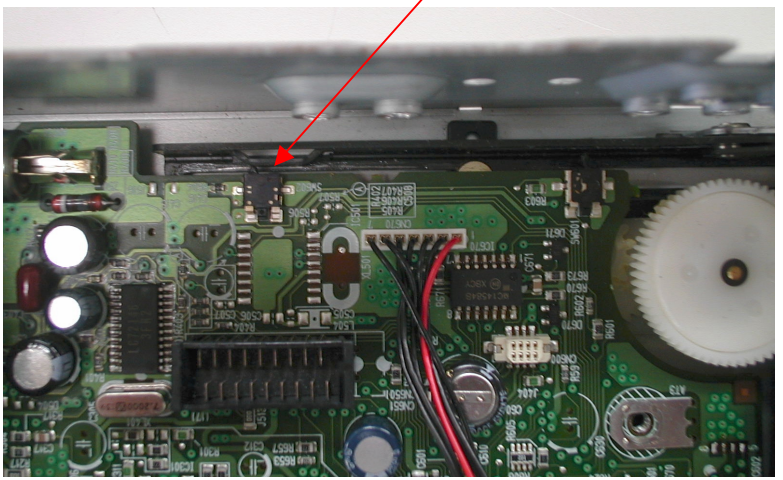


If the front side is tilted 45 degrees, the movable metal lever will not cling onto the switch pin.

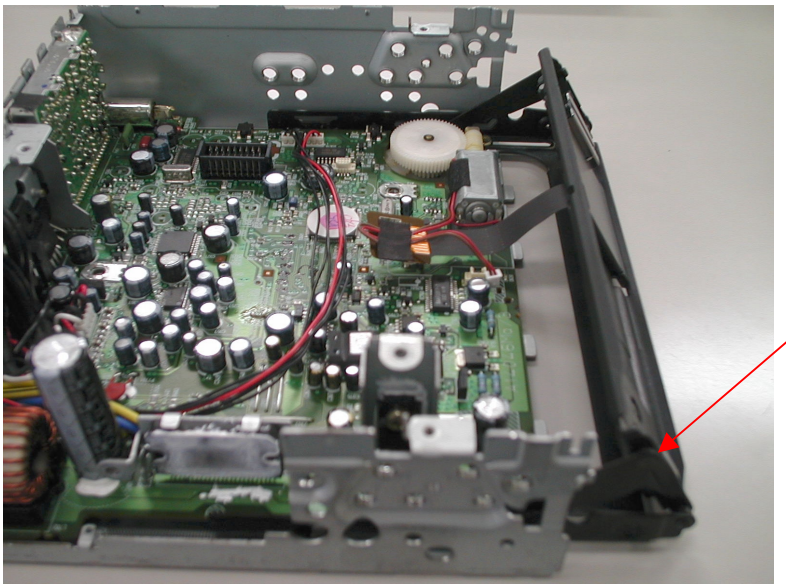


Please install as shown below in order to prevent damages on the end detection switch of the slide mechanism.

If the main P.C.B is installed when the slide mechanism is not moved forward, the switch will hit the metal part and will be damaged.



Move the front side by hand and install the main P.C.B. to the chassis when it is tilted 45 degrees.



When tilted 45 degrees